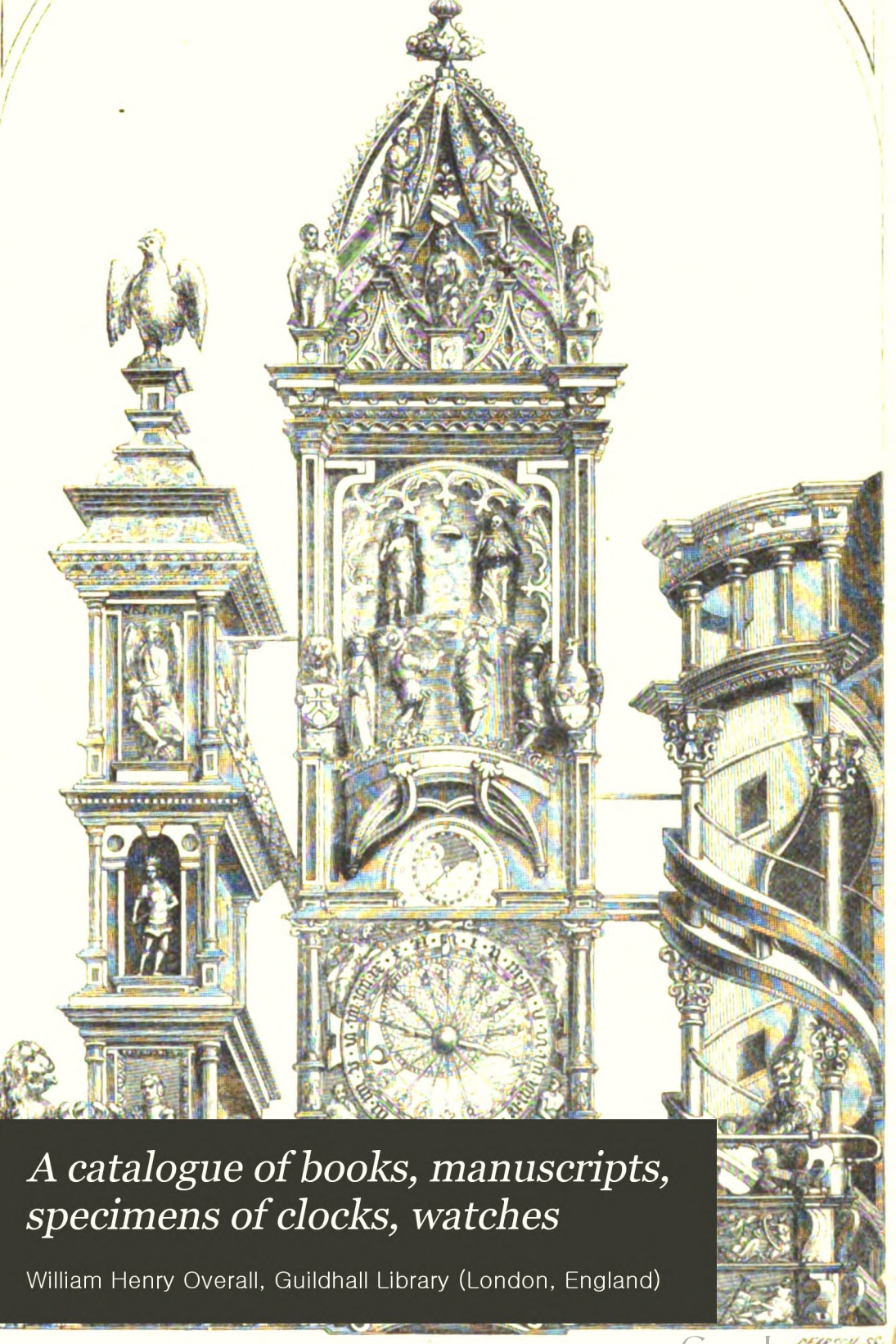


A catalogue of books, manuscripts, specimens of clocks, watches

William Henry Overall, Guildhall Library (London, England)

Digitized by Google

STRASBURG CATHEDRAL CLOCK.

Digitized by Google

ANNEX

Digitized by Google

Digitized by Google

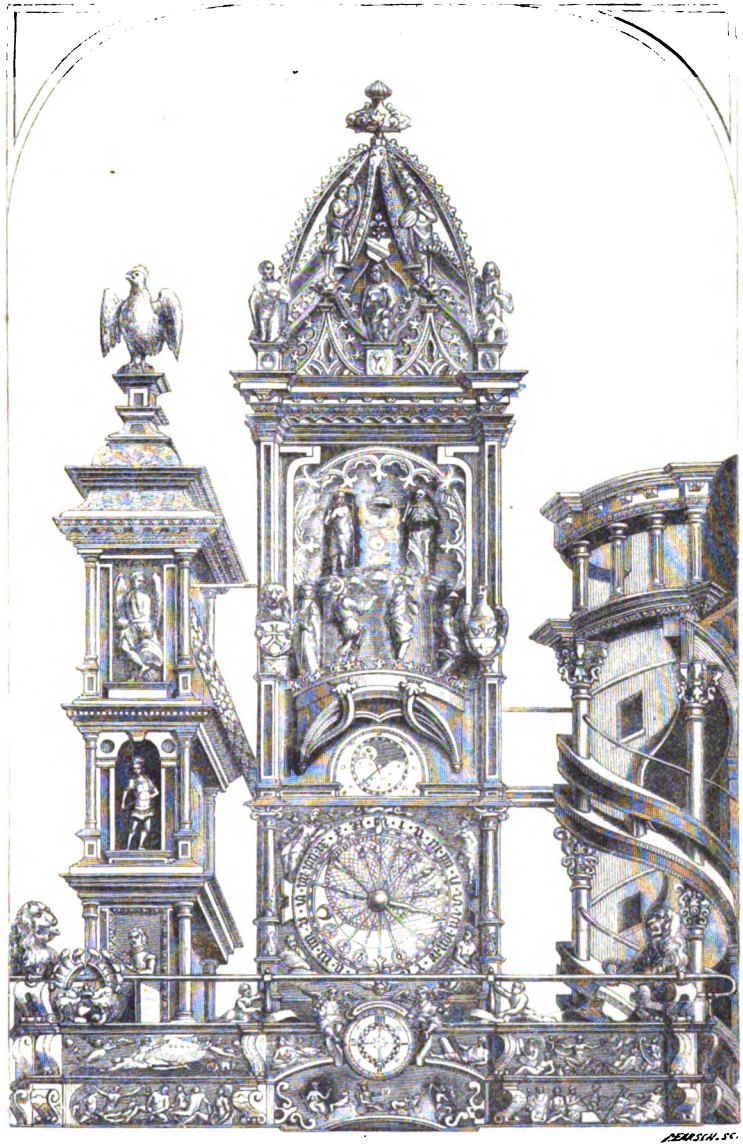
Digitized by Google

Digitized by Google

Clockmakers
Company
Libr

Digitized by Google

Digitized by Google



STRASBURG CATHEDRAL CLOCK.

Digitized by Google

Digitized by Google

Clockmakers Company, London. Library.

A

CATALOGUE OF BOOKS,

MANUSCRIPTS,

SPECIMENS OF CLOCKS, WATCHES

AND

WATCHWORK, PAINTINGS, PRINTS, &c.,

IN THE

LIBRARY AND MUSEUM

OF THE

WORSHIPFUL COMPANY OF CLOCKMAKERS,

DEPOSITED IN THE

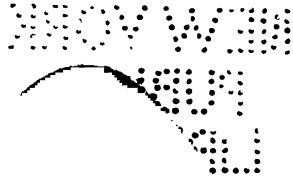
FREE LIBRARY OF THE CORPORATION OF THE CITY OF LONDON.

LONDON:
PRINTED BY E. J. FRANCIS & CO., TOOK'S COURT
AND WINE OFFICE COURT, E.C.

1875.

NEW YORK PUBLIC
Digitized by Google

THE NEW YORK
PUBLIC LIBRARY
309509
ASTOR, LENOX AND
TILDEN FOUNDATIONS



Digitized by Google

PREFACE.

THERE are, probably, few subjects connected with Science upon which so little has been published in this country (except occasionally in periodical publications) as those relating to the Theory and Practice of the Art of Clock and Watch Making. The paucity of works upon this subject is the more surprising, when its importance, as connected with the maritime greatness and commercial prosperity of the British Dominions, is duly considered. The safety of its Navy (the source of all its greatness), and also the security of its Commercial Marine, which is the nursery to the former, entirely depend, according to the modern practice of navigation, upon the accurate measurement of time at sea. The productions of our neighbours the French relating to the Science of Horology are much more numerous, and several of them are extremely curious and interesting.

Many individuals, from the difficulty of acquiring a general knowledge of the various inventions and improvements which have been made in this branch of Science, have lost much valuable time, and incurred a great expense, in bringing forward inventions which they supposed to be new, and in many cases in procuring Patents, of which printed descriptions were already in existence. Could these persons have had access to any public collection of works upon

Digitized by Google

Horology, it is more than probable that much time would have been saved and inconvenience avoided. With a full conviction of the importance of the subject, the Court of Assistants of the Company of Clockmakers of the City of London first contemplated the formation of a Library; and the Committee under whose immediate direction it was formed, being of opinion that a sufficient number of Volumes had been collected to be useful to the Practical Mechanic and to the Amateur, recommended to the Court that a Catalogue of them should be prepared, which recommendation was promptly acquiesced in, and the same was printed in 1830.

Since that period a great number of Volumes have been added to the Library; and on April 8th, 1872, in consequence of a letter addressed by Mr. Deputy S. E. Atkins, Clerk of the Company, to Mr. John Grant, the senior member of the Court and only surviving representative of the original Library Committee, suggesting a plan for transferring the Company's Library and Museum to the New Library of the Corporation of the City of London, which letter being laid before the Master, Wardens and Court of Assistants of the Company, they, in accordance with the suggestions contained therein, coincided in the desirability of placing their Library and Museum where they would be more useful and accessible to the general public, and—

"Resolved,

"That the Clerk be requested to communicate with

Digitized by Google

the Corporation of the City of London, so as to ascertain upon what conditions they would undertake the charge of the Company's Library and Museum, maintaining the same in proper order, and finding suitable accommodation for them in their New Library, subject to removal by either party on proper notice, and to report the same to this Court."

Upon the subject being submitted to the Library Committee of the Corporation, they recommended the Court of Common Council to accept the care of the Library and Museum, on terms to be mutually agreed upon, and submitted the draft of a deed for carrying the arrangement into effect July 18th, 1872, which deed being approved by the Master, Wardens and Court of Assistants, was sealed February 27th, 1873.

The Court of Assistants, recognizing the necessity of reprinting the Catalogue, on the 6th of April, 1874, passed the following order:—

"Resolved,

"That a new Catalogue of the Books in the Company's Library be compiled by Mr. W. H. Overall; the said Catalogue to contain the MSS. recently arranged by him, and also the collection of Clocks, Watches and Watch Movements, and all other articles belonging to the Company, recently deposited in the Guildhall Library and Museum of the City of London."

Digitized by Google

Digitized by Google

1875.

A LIST OF THE MASTER, WARDENS, AND COURT OF ASSISTANTS

OF THE WORSHIPFUL

COMPANY OF CLOCKMAKERS.

Master.

WILLIAM LAWLEY, Esq.

Wardens.

GEORGE MOORE, Esq.
JAMES SCOVELL ADAMS, Esq.
ALEXANDER ANGUS CROLL, Esq.

Assistants.

JOHN GRANT, Esq.
JOSEPH FENN, Esq.
JOHN CARTER, Esq., Alderman, F.R.A.S.
GEORGE WILLIAM ADAMS, Esq.
JOHN GARRETT CURTIS ADDISON, Esq.
WILLIAM WING, Esq.
CHARLES WELLBORNE, Esq.
WILLIAM PARKER, Esq.
WILLIAM BUTCHER, Esq.
ROBERT DOBREE, Esq.

Clerk.

SAMUEL ELLIOTT ATKINS, Esq. Deputy.

Digitized by Google

Digitized by Google

CONTENTS.

PAGE

BOOKS 1

MANUSCRIPTS 39

PRINTS 62

SPECIMENS 65

PORTRAITS 97

Digitized by Google

Digitized by Google

A CATALOGUE OF BOOKS,

&c. &c. &c.

Digitized by Google

Digitized by Google

CATALOGUE OF BOOKS.

ABBOTT (FRANCIS) A Treatise on the management of Public Clocks, particularly Church Clocks; with hints for their improvement, and means for regulating them. Second edition. 8vo. *London, n. d.*

ADAMS (JOHN) The Mathematician's Companion, or a Table of Logarithms. 8vo. *London*, 1790

ALEXANDRE (JACQUES) Traité général des Horloges. 8vo. *Paris*, 1734

ALLDRIDGE (W. J.) The Goldsmith's Repository; or, Treatise on the art of Assaying Metals. 8vo. *London*, 1789

ALMANACK (The Imperial), 1822 to 1826. 5 vols. 12mo. *London*, 1822-26

ALMANACK. The Ladies' Diary, or Woman's Almanack, for 1752. 8vo. *London*, 1752

ARNOLD (JOHN) Instructions concerning his Chronometers or Time-keepers. 4to. *London, n. d.*

ARNOLD (JOHN) Answer to an anonymous letter on the Longitude. 4to. *London*, 1782

ARNOLD (JOHN) Certificates and circumstances relative to the going of his Chronometers. 4to. *London*, 1791

Digitized by Google

ARNOLD (JOHN) Explanation of Time-keepers constructed by him. 4to. *London*, 1805

ART. Catalogue of antient and mediæval Art, exhibited at the Society of Arts. 8vo. *London*, 1850

ARTISANS AND MACHINERY. The First Report. Folio, *London*, 1824

ARTS, Manufactures, and Commerce, Transactions of the Society instituted at London for the encouragement of, from 1783 to 1831, with analytical Index to June, 1807. 47 vols. 8vo. *London*, 1783-1831

ARTS. The Journal of Science, Literature, and the Arts, from 1817 to 1830, with an Index to vols. 1 to 20. 30 vols. 8vo. *London*, 1817-1830

ARTS AND SCIENCES. Register of the, with all the important and interesting Inventions, Improvements, and Discoveries. 4 vols. 8vo. *London*, 1824-1827

ARTS. The Register of, and Journal of Patent Inventions, edited by L. Herbert. 7 vols. 8vo. *London*, 1828-32

ASTRONOMICAL SOCIETY. Memoirs and Transactions of the, from 1821 to 1832. 5 vols. 4to. *London*, 1822-33

Digitized by Google

B. (W.) Touchstone for Gold and Silver Wares; or, A Manual for Goldsmiths, with the several statutes now in force for regulating abuses committed in that craft, and the charter of the Goldsmiths taken from the record and truly rendred into English; also the laws in force against brass hilts and brass buckles, &c.
8vo. *London*, 1677

BABBAGE (CHARLES) Reflections on the decline of science in England, and on some of its causes.
8vo. *London*, 1830

BAILEY (ALEXANDER MABYN) 106 Plates of Mechanical Machines and implements of husbandry approved and adopted by the Society for the encouragement of Arts, Manufactures, and Commerce.
2 vols. in 1, folio, *London*, 1782

BECKETT (Sir EDMUND), Bart. [late E. B. DENISON], LL.D. Q.C. F.R.A.S. A Rudimentary Treatise on Clocks and Watches and Bells. Sixth Edition.
8vo. *London*, 1874

BERTHOUD (FERDINAND) L'Art de conduire et de régler les Pendules et les Montres, à l'usage de ceux qui n'ont aucune connoissance d'horlogerie.
12mo. *Haye*, 1761

BERTHOUD (FERDINAND) Éclaircissemens sur l'invention, la théorie, la construction, et les épreuves des nouvelles machines proposées en France pour la détermination des Longitudes en Mer, par la mesure du temps.
4to. *Paris*, 1773

BERTHOUD (FERDINAND) Traité des Horloges Marines, contenant la théorie, la construction, la main-d'œuvre de ces machines, et la manière de les éprouver.
4to. *Paris*, 1773

BERTHOUD (FERDINAND) Les Longitudes par la mesure du tems; ou, méthode pour déterminer les Longitudes en Mer, avec le secours des horloges marines.
4to. *Paris*, 1775

BERTHOUD (FERDINAND) Essai sur l'Horlogerie. Second edition.
2 tomes, 4to. *Paris*, 1786

Digitized by Google

BERTHOUD (FERDINAND) De la Mesure du tems; ou, Supplément au Traité des horloges marines, et à l'essai sur l'horlogerie. 4to. *Paris*, 1787

BERTHOUD (FERDINAND) Histoire de la mesure du tems par les Horloges. 2 tomes, 4to. *Paris*, 1802

BERTHOUD (FERDINAND) Traité des montres à longitude, et Supplément au Traité des montres à longitudes. 4to. *Paris*, 1792-1807

BIRD (JOHN) Method of dividing Astronomical instruments. 4to. *London*, 1767

BIRD (JOHN) Method of constructing Mural Quadrants. 4to. *London*, 1768

BLAGRAVE (JOHN) The Art of Dyalling, shewing how to make Dyals to all plaines. 4to. *London*, 1609

BOUGAINVILLE (M. de). Voyage autour du Monde, en 1766, 7, 8, 9. Second edition. 2 tomes, 8vo. *Paris*, 1772

BOWRING (JOHN) Report on the Commerce and Manufactures of Switzerland. 8vo. *London*, 1836

BROWN (HUMPHREY), M.P. Irish Wants and Practical Remedies: an investigation, on practical and economical grounds, as to the application of a government system of Railways in Ireland. 8vo. *London*, 1848

BRUHL (COUNT de) Short Explanation of the most proper method of calculating a Mean Daily Rate. 8vo. *London*, *n. d*

BRUHL (COUNT de) A Register of one of Mr. Mudge's Time-keepers. 8vo. *London*, 1771

BRUHL (COUNT de) On the Investigation of Astronomical Circles. 8vo. *London*, 1794

Digitized by Google

CASSINI (M. Fils) Voyage fait par ordre du Roi en 1798, pour éprouver les Montres Marines inventées par M. le Roy, avec le mémoire sur la meilleure manière de mesurer le tems en mer, par M. le Roy l'aîné, Horloger du Roi. 4to. *Paris*, 1770

CHAPPE d'AUTEROCHE (M.) Voyage en Californie pour l'observation du Passage de Vénus sur le Disque du Soleil le 3ᵉ Juin, 1769. 4to. *Paris*, 1772

CHARITABLE TRUSTS' BILL Report of the proceedings in the House of Lords on the, commencing 27 March 1846, with an analysis of the Bill. 8vo. *London*, 1846

CHARITABLE TRUSTS' BILL Addenda to the Report. 8vo. *London*, 1846

CHARITABLE TRUSTS' BILL An Address to the Lords, shewing cause "why the Bill should not pass into a Law." Second edition. 8vo. *London*, 1846

CHARITIES. Reports of the Commissioners appointed by the House of Commons concerning the Charities in England for the Education of the Poor, with Indexes. 26 vols. folio, *London*, 1819-30

CHINA The History of, in Manuscript. 8vo. 1735

CHITTY (JOHN) Practical Treatise on the law relative to apprentices and journeymen, and to exercising trades. 8vo. *London*, 1812

CHRONOMETER A Brief Account of, with remarks on those furnished by Parkinson and Frodsham to the Expeditions of Captains Ross, Parry, Sabine, &c. 8vo. *London*, 1831

CLARKE (HYDE) Contributions to Railway Statistics in 1845. 8vo. *London*, 1846

CLARKE (HYDE) Contributions to Railway Statistics, 1846-1848. 8vo. *London*, 1848

CLARKE (HYDE) Practical and Theoretical considerations on the management of Railways in India. 8vo. *London*, *n. d.*

Digitized by Google

CLARKE (HYDE) Physical Economy: a preliminary enquiry into the physical laws governing the periods of Famines and Panics. 8vo. *London, n. d.*

CLARKE (HYDE) Lives of Richard Trevithick, C.E., and George Stephenson, C.E. 8vo. *London, n. d.*

CLARKE (HYDE) Geology of the Lake District. 8vo. *London, n. d.*

CLARKE (HYDE), LL.D. F.S.S. Researches in Pre-historic and Proto-historic Comparative Philology, Mythology, and Archæology, in connection with the Origin of Culture in America and the Accad or Sumerian Families. 8vo. *London*, 1875

CLOCHES Description de la Fonte des Cloches, avec 8 Planches, extraits de l'Encyclopédie. Folio, *Paris, n. d.*

CLOCKMAKERS' COMPANY Charter and Bye-Laws of the Company of Clockmakers of the City of London, incorporated 1631, 7th Charles I. 8vo. *London*, 1825

CLOCKMAKERS' COMPANY Copies of the Livery Lists from 1786 to 1875. 8vo. *London*, 1786-1875
[Wanting 1846, '54, '57, and '61.]

CLOCKMAKERS' COMPANY A Statement of the various proceedings and transactions that have taken place between the Court of Assistants of the Company and H.M. Government in relation to the Importation of Foreign Clocks and Watches. 8vo. *London*, 1833

CLOCKMAKERS' COMPANY The same, with Addenda. 8vo. *London*, 1841

CLOCKMAKING Observations on the Art and Trade of Clock and Watch Making; the causes and consequences of the numerous frauds and innovations resulting from the defect of the laws. 8vo. *London*, 1812

CLOCK AND WATCH MAKERS An Act for exporting Watches, Sword-hilts, and other manufactures of silver. Folio, 1698

Digitized by Google

CLOCK AND WATCH MAKERS Report on the Petition of, to the House of Commons.
Folio, *London*, 1798

CLOCK AND WATCH MAKERS Report, &c., from the Committee on the Petitions of Watchmakers of Coventry. Folio, *London*, 1817

CLOCK AND WATCH MAKERS Report from the Select Committee appointed to consider of the Laws relating to Watchmakers. Folio, *London*, 1818

CLOCK AND WATCH MAKERS A Bill for the prevention of Frauds and Abuses in the manufacture, exportation, and importation of sundry wares, and for the relief of distressed workmen brought up to practice the manufacture of clocks and watches.
Folio, *London*, 1818

CLOCK AND WATCH MAKERS A Bill to regulate the Manufacture of Clocks and Watches.
Folio, *London*, 1819

CLOCKS, WATCHES, &c. List of Works upon, in MS.
4to.

COCKER (EDW.)* Multum in Parvo, or the Pen's Gallantrie. (Specimens of Penmanship.)
Oblong 4to. *London*, 1660

COX (JAMES) A Descriptive Inventory of the several exquisite and magnificent pieces of Mechanism and Jewellery in his Museum. 8vo. *London*, 1773

CRESPE (FRANÇOIS) Essai sur les Montres à répétition.
12mo. *Genève*, 1804

CUMMING (ALEXANDER), F.R.S. The Elements of Clock and Watch Work adapted to practice, in two essays. 4to. *London*, 1766

* He dwelt on the south side of St. Paul's Church, over against Paul's Chain; he died in the King's Bench Prison in 1677, and was buried at St. George the Martyr's, Southwark.

Digitized by Google

CUMMING (ALEXANDER), F.R.S. The same, with MS. Notes by Thomas Grignion. 4to. *London*, 1766

CUMMING (ALEXANDER), F.R.S. The same, with MS. Notes by Mr. James Short and Mr. Bowring. 4to. *London*, 1766

CUMMING (ALEXANDER), F.R.S. Observations on the effects which Carriage-Wheels with Rims of different Shapes have on the Roads. 4to. *London*, 1797

CUMMING (ALEXANDER), F.R.S. Observations on the causes that first occasioned the bending of the Axles of Wheel Carriages. 4to. *London*, 1810

Digitized by Google

DENISON (EDMUND BECKETT), M.A. A Rudimentary Treatise on Clock and Watch Making, with a chapter on Church Clocks, and an account of the proceedings respecting the great Westminster Clock. 8vo. *London*, 1850

DENT (EDWARD J.), F.R.A.S. An Abstract from two lectures on the construction and management of Chronometers, Watches, and Clocks. 8vo. *London*, 1841

DENT (EDWARD J.), F.R.A.S. On the errors of Chronometers, and explanation of a new construction of the Compensation Balance. 8vo. *London*, 1842

DENT (EDWARD J.), F.R.A.S. A Description of the Dipleidoscope, or double reflecting meridian and Altitude Instrument, with plain instructions for the method of using it in the correction of Time-keepers. 8vo. *London*, 1843

DENT (EDWARD J.), F.R.A.S. On the Azimuth and Steering Compass. 8vo. *London*, 1844

DERHAM (WILLIAM), M.A. The Artificial Clockmaker: a treatise of Watch and Clock Work. Wherein the art of calculating numbers for most sorts of movements is explained to the capacity of the unlearned; also the History of Clockwork, both ancient and modern. First edition. 12mo. *London*, 1696

DERHAM (WILLIAM), M.A. The same, to which is added a Supplement. Second edition. 12mo. *London*, 1793

DERHAM (WILLIAM), M.A. The same. Second edition. 12mo. *London, n. d.*

DERHAM (WILLIAM), M.A. F.R.S. The same. Showing to the meanest capacities the art of calculating numbers of all sorts of movements; the way to alter clockwork to make chimes, and to set them to Musical Notes; and to calculate and correct the motion of pendulums; also numbers for divers movements; with the ancient and modern history of Clockwork. Third edition. 12mo. *London*, 1714

Digitized by Google

DERHAM (WILLIAM), F.R.S. The same. Fourth edition. 12mo. *London*, 1734

DERHAM (WILLIAM), D.D. F.R.S. The same. Fourth edition, corrected. 12mo. *London*, 1759

DERHAM (WILLIAM), D.D. F.R.S. Traité d'Horlogerie pour les Montres et les Pendules, contenant le calcul des nombres propres à toutes sortes de mouvemens; la manière de faire et de notter les carillons de changer et de corriger le mouvement du pendule. 8vo. *Paris*, 1731

DUBOIS (PIERRE) La Tribune Chronométrique Scientifique et Biographique à l'usage des membres de la corporation des horlogers. 8vo. *Paris*, 1852

Digitized by Google

EARNSHAW (THOMAS) An Appeal to the Public, stating his claim to the original invention of the improvements in his Time-keepers. 8vo. *London*, 1808

EDINBURGH Philosophical Journal, from 1819 to 1830, edited by Drs. Brewster and Robert Jameson.
22 vols. 8vo. *Edinb.* 1819-1830

ELLICOTT (JOHN), F.R.S. An Account of the influence which Two Pendulum Clocks were observed to have upon each other. 4to. *London n. d.*

ELLICOTT (JOHN), F.R.S. Description of Two Methods by which the irregularities in the motion of a clock, arising from the influence of heat and cold upon the rod of the pendulum, may be prevented.
4to. *London*, 1753

ENGLAND, THE BANK OF Report from the Committee of Secrecy of the Commons on the Charter.
Folio, *London*, 1832

ENGLAND, THE BANK OF A Copy of the Correspondence between the Chancellor of the Exchequer and the Bank of England, relative to the renewal of the Charter. 8vo. *London* 1833

EQUATION OF TIME, An Explanation of the Nature of, and use of the Equation Table for adjusting Watches and Clocks to the Motion of the Sun; also the Description of a Time-keeper for Astronomical and other uses. 4to. *London*, 1731

ESCAPEMENTS, Several Drawings of, with Description by W. Howells. Folio, MS.

ETTEN (HENRY VAN) Mathematicall Recreations, or a collection of sundrie problems extracted out of the ancient and moderne philosophers, as secrets in nature, and experiments in arithmeticke, geometrie, &c.
12mo. *London*, 1633

EUCLID, The Elements of, explained in a new, but most easy method; written in French by F. Claud. Francis Milliet de Chales, now made English. Fifth Edition. (Autograph of Alex. Cumming.) 8vo. *London*, 1712

Digitized by Google

EXHIBITION, THE GREAT, 1851 Catalogue of the.
4to. *London*, 1851

EXHIBITION, The State Ceremonial of the Declaration of Prizes to Exhibitors, July 11, 1862.
8vo. *London*, 1862

EXHIBITION, THE, 1862 Medals and Honourable Mentions awarded by the International Juries; with a List of Jurors, and the Report of the Council of Chairmen.
8vo. *London*, 1862

Digitized by Google

FERGUSON (JAMES), F.R.S. Tables and Tracts relative to several Arts and Sciences. 8vo. 1767

FERGUSON (JAMES), F.R.S. An Easy Introduction to Astronomy. Third edition. 8vo. *London*, 1772

FERGUSON (JAMES), F.R.S. An Introduction to Electricity. Second edition. 8vo. *London*, 1775

FERGUSON (JAMES), F.R.S. Lectures on select subjects in Mechanics, Hydrostatics, Hydraulics, Pneumatics, and Optics. Fifth edition. 8vo. *London*, 1776

FERGUSON (JAMES), F.R.S. The Art of Drawing in Perspective. Second edition. 8vo. *London*, 1778

FERGUSON (JAMES), F.R.S. Select Mechanical Exercises. Shewing how to construct different Clocks, Orreries, and Sun-dials on plain and easy principles. Second Edition. 8vo. *London*, 1778

FERGUSON (JAMES), F.R.S. Astronomy Explained on Sir Isaac Newton's Principles. Sixth edition. 8vo. *London*, 1778

FERGUSON (JAMES), F.R.S. Lectures on Select Subjects in Mechanics, Hydrostatics, Hydraulics, Pneumatics, Optics, Geography, Astronomy, and Dialling. With Notes by David Brewster, LL.D., F.R.S. Third edition. 3 vols. 8vo. *Edinburgh*, 1823

FERGUSON (JAMES), F.R.S. Lectures on Select Subjects in Mechanics, Hydrostatics, Pneumatics, Optics, and Astronomy, adapted to the present state of science. By C. F. Partington. 8vo. *London*, 1825

FERGUSON (JAMES), F.R.S. Lectures on Electricity. With an Appendix, adapting the Work to the present state of Science, by C. F. Partington. 8vo. *London*, 1825

FLAX. Copies of the several Exemplifications of Patents passed in Great Britain relative to the machinery for spinning flax. 4to. *Dublin*, 1796

Digitized by Google

FLEURIEU (M. d'EVEUX de) Voyage fait par ordre du Roi en 1768 et 1769, à différentes parties du Monde, pour éprouver en Mer les Horloges Marines Inventées par F. Berthoud. 2 tomes, 4to. *Paris*, 1773

FOOTE (RICHARD) The Pyrakodon, or Fire Detecter, a certain security against the destruction of property and loss of life in cases of accidental fire.
8vo. *London*, *n. d.*

FOSTER (SAMUEL) Miscellanies, or Mathematical Lucubrations. Several Pieces translated into English, and published by John Twysden. (With MS. additions.)
Folio, *London*, 1659

FRANKLIN (CAPT. JOHN), F.R.S. Narrative of a journey to the shores of the Polar Sea in 1819, '20, '21, and '22. 4to. *London*, 1823

FRANKLIN (CAPT. JOHN), F.R.S. Narrative of a Second Expedition to the Shores of the Polar Sea in 1825, '26, and '27. 4to. *London*, 1828

FRODSHAM (W. J.), F.R.S. Results of Experiments on the Vibrations of Pendulums with different suspending springs. 4to. *London*, 1838

Digitized by Google

GARNIER (J. G.) Usage du Compas de proportion, suivi d'un traité de la division des champs.
12mo. *Paris*, 1794

GILBERT (DAVIES), F.R.S. On the Vibrations of heavy bodies in cycloidal and in circular arches, as compared with their descents through free space; including an estimate of the variable circular excess in vibrations continually decreasing.
8vo. *London, n. d.*

GILL (THOMAS) Technological Repository; or, discoveries and improvements in the Useful Arts.
6 vols. 8vo. *London*, 1827-30

GOOD (JOHN) The Art of Shadows; or, Universal Dialling, with tables exactly calculated for the Latitude of 51·30 min., viz., London. Second Edition, with additions. 12mo. *London*, 1711

GRANT (MAJOR-GENERAL CHARLES, VISCOUNT DE VAUX) The Means of finding the Longitude at Sea, gradually developed, discovered, and demonstrated. 4to. *London*, 1808

GREGORY (OLINTHUS) A Treatise of Mechanics, theoretical, practical, and descriptive.
2 vols. in 3, 8vo. *London*, 1806

Digitized by Google

HALLUS, *alias* LINUS, (FRANCISCUS) Explicatio Horologii in Horto Regio Londini, An. 1669 erecti. 4to. *Leodii Eburonum*, 1673

HANDS (WILLIAM) The Law and Practice of Patents for Inventions. 8vo. *London*, 1808

HARRISON (JAMES) An Introduction to a treatise on the proportions of the constituent parts of Bells. 8vo. *Hull*, 1831

HARRISON (JOHN) Principles of his Time-keeper. 4to. *London*, 1767

HARRISON (JOHN) Account of the going of his Watch, from May 6, 1766, to March 4, 1767; together with the original observations and calculations of the same, by the Rev. Nevil Maskelyne. 4to. *London*, 1767

HARRISON (JOHN) A Description concerning such Mechanism as will afford a nice or true Mensuration of Time; together with some account of the attempts for the discovery of the Longitude by the Moon; as also an account of the discovery of the Scale of Musick. 8vo. *London*, 1775

HARTMAN (JOHANN GEORGE) Necessary Instructions for improving all Clocks by the height of winding-up, horizontal position, and by calculation. (In German.) 8vo. *Halle*, 1756

HATTON (THOMAS) Introduction to the mechanical part of Clock and Watch Work. 8vo. *London*, 1773

HENDERSON (E.) An Historical Treatise on Horology; shewing its rise and progress, from the earliest period down to the present time. 8vo. *London*, 1836

HOBBES THOMÆ MALMESBURIENSIS, Vita carmine expressa. Authore seipso. 4to. *London*, 1682

HOOKE (ROBERT), F.R.S. Description of Helioscopes, and some other instruments. 4to. *London*, 1676

HOOKE (ROBERT), F.R.S. Lampas; or, Description of some mechanical improvements of Lamps and Waterpoises. 4to. *London*, 1677

Digitized by Google

HOOKE (ROBERT), F.R.S. Lectures and Collections. 4to. *London*, 1678

HOOKE (ROBERT), F.R.S. Lectures De Potentia restitutiva, or of Spring. Notes of his Inventions in MS., at the end of the book. 4to. *London*, 1678

HORARY TABLES for Correcting the apparent distance of the Moon and a Star from the effects of Refraction and Parallax. Published by order of the Commissioner of Longitude, with a Preface by A. Shepherd. Folio, *Cambridge*, 1772

HORLOGERIE Mémoire sur l'Horlogerie, contenant diverses remarques sur les ouvrages et les pretensions de M. R. 4to. *Paris*, 1750

HORLOGERIE L'Art de l'Horlogerie; ou, Manuel complet de l'horloger, et de l'amateur, d'après Berthoud et les travaux de Wuillamy, premier Horloger du Roi d'Angleterre Georges IV. 12mo. *Paris*, 1827

HORLOGERIE Avec 50 planches. 4to. *n. p. n. d.*

HORLOGERIE Encyclopédie Méthodique, contenant 64 planches. Folio, *Paris*, *n. d.*

HORLOGERIE Avec planches. Folio, *n. p. n. d.*

HOROLOGY Extracted from the Encyclopædia Londinensis. 4to. *London*, 1809

HUGENII CHRISTIANI Horologium Oscillatorium, sive de motu pendulorum ad horologia aptato demonstrationes geometricæ. Folio, *Paris*, 1673

HUGHSON (DAVID), LL.D. An Epitome of the Privileges of London, including Southwark, as granted by Royal Charters, confirmed by Acts of Parliament, and established by ancient custom. 12mo. *London*, 1816

Digitized by Google

IRONMONGERS' COMPANY A Catalogue of Works of Art, &c., Exhibited at Ironmongers' Hall.
2 vols. 4to. *London*, 1869

Digitized by Google

JACKSON (WILLIAM) Watch-case Maker, Trial of, at the Old Bailey, April 9, 1816, for transposing and removing the Marks of the Goldsmiths' Company from one Watch-case to another. Taken in Short-hand by J. A. Dowling. 8vo. *London*, 1816

JANVIER (ANTIDE) Étrennes Chronométriques pour l'An 1811; ou, précis de ce qui concerne le tems, ses divisions, ses mesures, leurs usages, &c. 12mo. *Paris*, 1810

JANVIER (ANTIDE) Manuel Chronométrique; ou, précis de ce qui concerne le temps, ses divisions, ses mesures, leurs usages, &c. 12mo. *Paris*, 1821

JANVIER (ANTIDE) Essai sur les Horloges Publiques pour les communes de la campagne. 8vo. *Paris*, 1811

JANVIER (ANTIDE) Des Révolutions des corps Célestes par le mécanisme des rouages. 4to. *Paris*, 1812

JENKINS (HENRY) A Description of several Astronomical and Geographical Clocks. With an Account of their motion and uses, and a short account of a Marine Regulator. 8vo. *London*, 1778

JODIN (JEAN) Les Échappemens à repos comparés aux échappemens à recul, avec un mémoire sur une montre de nouvelle construction, suivi de quelques réflexions sur l'état présent de l'Horlogerie, sur la police des maîtres Horlogers de Paris, et sur la nature de leurs statuts. 12mo. *Paris*, 1766

JONES (THOMAS) Description and Use of the Sectograph. 8vo. *London*, 1814

JONES (THOMAS) Companion to the Mountain Barometer. Consisting of tables whereby the operation of computing heights with that instrument is rendered extremely simple and easy, whilst its accuracy is inferior to no other mode. Second edition. 8vo. *London*, 1825

JÜRGENSEN (URBAIN) Principes Généraux de l'exacte mesure du temps par les Horloges. 2 tomes, 4to. *Copenhague*, 1805

JÜRGENSEN (URBAIN) Mémoires sur l'Horlogerie exacte. 4to. *Paris*, 1832

Digitized by Google

KATER (Capt. HENRY), F.R.S. An Account of the Experiments for determining the variation in the length of the Pendulum vibrating seconds, at the principal stations of the Trigonometrical Survey of Great Britain. 4to. *London*, 1819

KATER (Capt. HENRY), F.R.S. An Account of the Comparison of various British Standards of Linear Measure. 4to. *London*, 1821

KATER (Capt. HENRY), F.R.S. On the Errors in Standards of Linear Measure. 4to. *London*, 1830

KATER (Capt. HENRY), F.R.S., and LARDNER (DIONYSIUS), LL.D., F.R.S. Treatise on Mechanics. 8vo. *London*, 1830

KENNEDY (R. H.) Memorandum of the Life and public charities of Sir Jamsetjee Jeejeebhoy, Bart., Citizen and Clockmaker. 8vo. *London*, 1855

Digitized by Google

LANZ et BÉTANCOURT (MM.) Essai sur la composition des Machines. Seconde édition. 4to. *Paris*, 1819

LEPAUTE (J. A.) Traité d'Horlogerie, contenant tout ce qui est nécessaire pour bien connôitre et pour régler les pendules et les montres. Augmenté de la description d'une nouvelle pendule policamératique. 4to. *Paris*, 1760

LEYBOURN (WILLIAM) Pleasure with Profit, consisting of recreations of divers kinds, viz. numerical, geometrical, mechanical, statical, astronomical, horometrical, cryptographical, magnetical, automatical, chymical, and historical. Published to recreate ingenious spirits, to which is annexed a Treatise of Algebra. Folio, *London*, 1694

LONGITUDE AT SEA An Act to amend an act of the 58th of Geo. III., c. 20, for more effectually discovering the. Folio, *London*, 1821

LUDLAM (Rev. W.) Astronomical Observations made in St. John's College, Cambridge, in the Years 1767 and 1768, with an account of several astronomical instruments. 4to. *Cambridge*, 1769

LUDLAM (Rev. W.) Directions for the Use of Hadley's Quadrant, with Remarks on the construction of that instrument. 8vo. *London*, 1808

LYONS (Capt. G. F.) Private Journal during the Voyage of discovery under Capt. Parry. 8vo. *London*, 1824

LYONS (Capt. G. F.) Narrative of an unsuccessful attempt to reach Repulse Bay through Sir Thomas Rowe's "Welcome," in H.M. ship Griper, in the Year 1824. 8vo. *London*, 1825

Digitized by Google

MACKAY (ANDREW) The Theory and Practice of finding the Longitude at Sea or Land; to which are added, various methods of determining the Latitude of a Place, and Variation of the Compass; with new Tables. 2 vols. in 1, 8vo. *London*, 1793

MANDEY (VEN.) and MOXON (J.) Mechanick Powers; or, The Mystery and Nature of Art Unvailed. 4to. *London*, 1696

MARGETTS (GEO.) Horary Tables, for shewing by inspection the apparent diurnal motion of the Sun, Moon, and Stars, the Latitude of a Ship, and the Azimuth, Time, or Altitude, corresponding with any Celestial Object. Folio, *London*, *n. d.*

MARGETTS (GEO.) Description of the Horary Tables. 4to. *London*, *n. d.*

MASKELYNE (NEVIL), D.D., F.R.S. Answer to a pamphlet by T. Mudge, Jun., entitled, 'A Narrative of Facts,' relating to some Time-keepers constructed by his Father, Mr. Thomas Mudge. 8vo. *London*, 1792

MATHEMATICAL SOCIETY, Crispin Street, Spital-fields. A Catalogue of Books belonging to the. 8vo. *London*, 1804

MECHANICS' Magazine, Museum, register, journal, and gazette. 33 vols. 8vo. *London*, 1824-40

MECHANICS. The Glasgow Mechanics' Magazine, and Annals of Philosophy. 5 vols. 8vo. *Glasgow*, 1824-6

MECHANICS. The London Mechanics' Register. 4 vols. 8vo. *London*, 1824-26

MECHANICS. New London Mechanics' Register, and magazine of science and useful arts. 2 vols. 8vo. *London*, 1827-8

MECHANICS' Oracle, and Artisans' Laboratory and workshop, by Alex. Tilloch, LL.D 4to. *London*, 1825

MECHANICS' Weekly Journal; or, Artisans' Miscellany of inventions, experiments, projects, and improvements in the useful arts. 8vo. *London*, 1824

Digitized by Google

MOINET (M. L.) Nouveau Traité général astronomique et civil d'horlogerie théorique et pratique.
2 tomes, 8vo. *Paris*, 1848

MONNIER (M. Le) Observations de la lune, du soleil, et des étoiles fixes, pour servir à la physique céleste et aux usages de la navigation. Folio, *Paris*, 1761

MORGAN (OCTAVIUS), M.P., F.S.A. Observations on the history and progress of the Art of Watch-making, from the earliest period to modern times.
4to. *London*, 1849

MORTIMER (Mr.) The Universal Director; or, the nobleman and gentleman's true guide to the masters and professors of the liberal arts, manufactures, and sciences, and of the mechanic arts, manufactures, and trades established in London and Westminster.
8vo. *London*, 1763

MUDGE (THOMAS) A Register of the going of his first Time-keeper, from April 18, 1780, to May 7, 1781; with two other Registers of the same Time-piece.
4to. *London, n. d.*

MUDGE (THOMAS) Report from the Select Committee of the House of Commons on his Petition. MS.
8vo. April 29, 1793

MUDGE (THOMAS) Report from the Select Committee of the House of Commons, to whom it was referred to consider of the report which was made from the Committee to whom the Petition of T. Mudge was referred 11th June. 8vo. *London*, 1793

MUDGE (THOMAS) Description of the Time-keeper invented by the late Mr. T. Mudge, and on the means of improving watches, and more particularly those for the use of the sea. 4to. *London*, 1799

MUDGE (THOMAS, Jun.) Narrative of Facts relating to some Time-keepers constructed for the discovery of the Longitude at Sea, together with observations upon the conduct of the Astronomer Royal respecting them.
8vo. *London*, 1792

Digitized by Google

MUDGE (THOMAS, Jun.) Reply to the Answer of the Rev. Dr. Maskelyne, Astronomer Royal.
8vo. *London*, 1792

MURHARD (W. AUG.) Litteratur der Mathematischen Wissenschaften. Mathematical Library; or, a complete Catalogue of Books in every department of science, including a Catalogue of every work published on Clock and Watch Making, from the earliest period to the Year 1804 (in German).
5 vols. 8vo. *Leipzig*, 1797-1805

MUSSCHENBROEK (PETER van), M.D. The Elements of Natural Philosophy, translated by John Colson, M.A. and F.R.S. 2 vols. 8vo. *London*, 1744

Digitized by Google

NAUTICAL ALMANACK, The, and Astronomical Ephemeris, from 1767 to 1839.

72 vols. 8vo. *London*, 1767-1837

NAUTICAL MAGAZINE, The, and Naval Chronicle. A Journal of papers on subjects connected with Maritime Affairs, from 1832 to 1874.

40 vols. 8vo. *London*, 1832-1874

[The volume for 1863 wanting.]

NICHOLSON (JOHN) The Operative Mechanic and British Machinist, being a practical display of the manufactories and mechanical arts of the United Kingdom. Second edition. 8vo. *London*, 1825

NICHOLSON (WILLIAM) A Journal of Natural Philosophy, Chemistry, and the Arts.

5 vols. 4to. *London*, 1797-1802

Digitized by Google

ORLEBAR (ARTHUR BEDFORD), M.A. Observations made at the magnetical and meteorological observatory at Bombay in 1846. 4to. *Bombay*, 1849

OZANAM (M.) Récréations Mathématiques et Physiques. 2 tomes in 1. 8vo. *Paris*, 1696

OZANAM (M.) Récréations Mathématiques et Physiques. 2 tomes, 8vo. *Amsterdam*, 1698

Digitized by Google

PARKINSON and FRODSHAM Observations on Chronometers supplied by them. From the Appendix to Captain Sir John Ross's Narrative of his Second Expedition to the Arctic Regions, from 1829 to 1833.
4to. *London*, 1833

PARKINSON and FRODSHAM Changes of Rates in Chronometers, as stated to arise from their transfer from one place to another on Land, or by their removal from Land to Ship-board. 8vo. *London*, 1833

PARR (WILLIAM) Treatise of Pocket Watches. Pointing out the defects so generally complained of in their construction; also stating a general rule adapted to mechanical practice, by which manufacturers may effectually avoid all irregularity in the formation of a watch. 8vo. *London*, 1804

PARRY (Capt. WILLIAM EDWARD), R.N., F.R.S. Journal of a Voyage for the discovery of a North-West Passage from the Atlantic to the Pacific, performed in the Years 1819-1820, in H.M. Ships Hecla and Griper.
4to. *London*, 1821

PARRY (Capt. WILLIAM EDWARD), R.N., F.R.S. Journal of a Second Voyage for the discovery of a North-West Passage, performed in the Years 1821, '22, '23, in H.M. Ships the Fury and Hecla.
4to. *London*, 1824

PARRY (Capt. WILLIAM EDWARD), R.N., F.R.S. Journal of a Third Voyage, in 1824-5.
4to. *London*, 1826

PARRY (Capt. WILLIAM EDWARD), R.N., F.R.S. Narrative of an attempt to reach the North Pole in 1827. 4to. *London*, 1828

PARTINGTON (C. F.) The Clock and Watch Maker's Complete Guide. Comprehending the early history of the art, its progressive improvement and present state. 8vo. *London, n. d.*

PARTINGTON (C. F.) Historical and Descriptive Account of the Steam-Engine. 8vo. *London*, 1826

Digitized by Google

PATENTS Copies of several exemplifications of patents for Spinning Flax by Machinery. 4to. *Dublin*, 1796

PENDULUM Experiments relating to the pendulum vibrating seconds of time in the latitude of London. By Captain H. Kater, F.R.S. Folio, *London*, 1818

PHILOSOPHICAL Collections (5 Nos.)
1 vol. sm. 4to. *London*, 1681

PHILOSOPHICAL Journal (Edinburgh).
25 vols. 8vo. *Edinburgh*, 1819-38

PHILOSOPHICAL Magazine, from the commencement to 1805, edited by Alex. Tilloch.
20 vols. 8vo. *London*, 1796-1805

PHILOSOPHICAL Magazine Vols. 43 to 68, edited by Alex. Tilloch and R. Taylor.
26 vols. 8vo. *London*, 1815-26

PHILOSOPHICAL Magazine New Series, edited by R. Taylor and R. Phillips. 11 vols. 8vo. *London*, 1827-32

PHILOSOPHICAL Magazine and Journal of Science Third Series, edited by Sir David Brewster, LL.D., Richard Taylor, F.S.A., Richard Phillips, F.R.S., and Sir Robert Kane, M.D.
37 vols. 8vo. *London*, 1832-1850

PHILOSOPHICAL Magazine and Journal of Science. Fourth series, conducted by Sir David Brewster, LL.D., Richard Taylor, F.S.A., Richard Phillips, F.R.S.L., Sir Robert Kane, M.D., William Francis, F.L.S., and John Tyndall, F.R.S.
26 vols. 8vo. *London*, 1851-1863

PHILOSOPHICAL Transactions, abridged from the Commencement to 1750. 12 vols. 4to. *London*, 1756

PHILOSOPHICAL Transactions at large, from 1751 to 1808. 58 vols. 4to. *London*, 1752-1808

PHIPPS (CONSTANTINE JOHN) Voyage towards the North Pole, undertaken by His Majesty's Command,— in the year 1773. 4to. *London*, 1774

Digitized by Google

POPPE (JOHN HENRY M.) Attempt at a History of the origin and progress of the theoretic-practical art of Watchmaking. (In German). 12mo. *Göttingen*, 1797

POPPE (JOHN HENRY M.) Circumstantial History of the theoretic-practical art of Watchmaking, to the end of the 18th Century. (In German.) 8vo. *Leipsic*, 1801

POWELL (JOHN) A Letter to Edward Ellice, Esq., M.P., on the general influence of large establishments on apprentices, in producing unfair competition, demoralization of character, parish burthens, insufficient workmen, injured credit, and decay of trade. 8vo. *London*, 1819

PREUDHOMME (LOUIS BAPTISTE) Considérations Pratiques sur les engrenages de roues, et pignons, en Horlogerie. 12mo. *Paris*, 1780

Digitized by Google

RAINGO (M.) Description d'une pendule à sphère mouvante. 8vo. *Paris*, 1823

RAMSDEN (J.) Description of an Engine for Dividing Mathematical Instruments. 4to. *London*, 1777

REGISTER of Arts and Sciences. 1823 to 1827. 4 vols. 8vo. *London*, 1824–27

REGISTER of Arts and Sciences, and Journal of Patent Inventions. New series. 7 vols. 8vo. *London*, 1828-32

REID (THOMAS) Horology, extracted from Brewster's Edinburgh Cyclopædia, with MS. Notes by the Author. 4to. *Edinburgh*, 1819

REID (THOMAS) Treatise on Clock and Watch Making, Theoretical and Practical. 8vo. *Edinburgh*, 1826

Presentation Copy, on large paper. Two Copies only were printed on this size.

REID (THOMAS) The same, small paper. 8vo. *Edinburgh*, 1826

REPEATING MOTION Stockten's Description of the. 4to. *London*, 1819

REPERTORY of Arts and Manufactures. First series, 1794 to 1802. 16 vols. 8vo. *London*, 1794-1802

REPERTORY of Arts and Manufactures. Second series, 1818 to 1825. 15 vols. 8vo. *London*, 1818-1825

REPERTORY of Patent Inventions. New series, 1825 to 1833. 16 vols. 8vo. *London*, 1825-1833

REPERTORY of Arts and Manufactures. New series, 1834 to 1837. 8 vols. 8vo. *London*, 1834-1837

ROBERTSON (JOHN) Treatise of such Mathematical Instruments as are usually put into a portable case; with an appendix. Third edition. 8vo. *London*, 1775

ROBERT (Henri) Études sur Diverses Questions d'Horlogerie. 8vo. *Paris*, 1852

ROBERT (Henri) Considérations Pratiques sur l'Huile employée en Horlogerie. 8vo. *Paris*, 1851

Digitized by Google

ROBINSON (JOHN) System of Mechanical Philosophy, with Notes by David Brewster, LL.D.
4 vols. 8vo. *Edinburgh*, 1822
[Volume 1 wanting.]

ROSS (Capt. JOHN) A Voyage of Discovery made under the orders of the Admiralty in His Majesty's ships Isabella and Alexander, for the purpose of exploring Baffin's Bay, and inquiring into the probability of a North-West Passage. 4to. *London*, 1819

ROSS (Capt. JOHN) An Explanation of Capt. Sabine's remarks on the late Voyage of Discovery to Baffin's Bay. 8vo. *London*, 1819

Digitized by Google

SABINE (CAPT. EDWARD) Remarks on Capt. J. Ross's account of the late Voyage of Discovery to Baffin's Bay. Second edition. 8vo. *London*, 1819

SABINE (CAPT. EDWARD) An Account of Experiments to determine the Figure of the Earth, by means of the pendulum vibrating seconds in different Latitudes. 4to. *London*, 1825

SARGUES (M. de) Universal Way of Dyalling; or, plain and easie directions for placing the Axletree, and marking the hours in Sun-dyals, after the French, Italian, Babylonian, and Jewish manner, by Daniel King. 4to. *London*, 1659

SCHOTT (GASPAR) Technica Curiosa, sive Mirabilia Artis, Libris XII. Comprehensa. 4to. *Herbipol*, 1687

SCIENTIFIC GAZETTE; or, Library of Mechanical Philosophy, edited by C. F. Partington. 4to. *London*, 1826

SERVIÈRE (M. GROLLIER de) Recueil d'ouvrages curieux de mathématique et de mécanique. Second edition. 4to. *Paris*, 1751

SMEATON (JOHN) and LUDLAM (Rev. W.) Letters on Turret Clocks, MS., with Drawings. 4to. 1779

SMITH (JAMES) The Mechanic; or, compendium of practical inventions. 2 vols. 8vo. *Liverpool, n. d.*

SMITH (JOHN) Horological Disquisitions concerning the nature of time, and the reason why all days, from noon to noon, are not alike Twenty-four Hours Long, with tables of equations. 12mo. *London*, 1694

SMITH (JOHN) The same, with MS. Notes by the late Mr. Cumming. 12mo. *London*, 1694

S(MITH) J(OHN) Horological Dialogues, in three parts, shewing the nature, use, and right managing of clocks and watches [3 Copies]. 12mo. *London*, 1675

SMYTH (Capt. W. H.), R.N., D.C.L., &c. Description of an Astronomical Clock belonging to the Society of Antiquaries. 4to. *London*, 1848

Digitized by Google

STANHOPE (CHARLES, EARL) Principles of the science of tuning instruments with fixed tones.
8vo. *London*, 1806

STIRRUP (THOMAS) Horometria; or, the Complete Diallist. 4to. *London*, 1652

STRASBURG Description of the Cathedral and Clock of. (In German.) 4to. *Strasburgh*, 1617

SULLY (HENRY) Description abrégée d'une Horloge d'une nouvelle invention pour la Juste Mesure du Temps sur Mer. 4to. *Paris*, 1726

SULLY (HENRY) Règle Artificielle du Tems. Traité de la division naturelle et artificielle du temps, des Horloges, et des Montres de différentes constructions, de la manière de les connoître, et de les régler avec justesse. Nouvelle édition, corrigée et augmentée de quelques Mémoires sur l'Horlogerie, par M. Julien le Roy. 8vo. *Paris*, 1737

SUSSEX, The DUKE of Catalogue of the very Celebrated and unique collection of Regulators, Clocks, Chronometers, and Watches, the property of.
4to. *London*, 1843

Digitized by Google

TABLES for Correcting the apparent Distance of the Moon and a Star, published by order of the Commissioners of Longitude. 4to. *Cambridge*, 1772

THIOUT (M.) l'aîné, Traité de l'Horlogerie méchanique et pratique approuvé par l'Académie Royale des Sciences. 4 tomes in 2, 4to. *Paris*, 1741

THOMSON (ADAM) Time and Timekeepers. 8vo. *London*, 1842

Digitized by Google

VIGNIAUX (P.) Horlogerie Pratique, à l'usage des apprentis et des amateurs. 8vo. *Toulouse*, 1788

VULLIAMY (BENJAMIN LEWIS) Some Considerations on the subject of Public Clocks, particularly Church Clocks, with hints for their improvement; with a Supplement. 4to. *London*, 1828-30

VULLIAMY (BENJAMIN LEWIS) On the Construction and Theory of the Dead Escapement for Clocks. 8vo. *London*, 1846

Digitized by Google

WALES (WILLIAM), F.R.S. Method of finding the Longitude at Sea by Time-keepers, with tables of equations to equal altitudes. 8vo. *London*, 1794

The same, second edition. 8vo. *London*, 1810

WALLACE, ROBERT, F.G.S. Some Account of John Smith, Clockmaker, taken from the Anti-trinitarian Biography of. MS. 8vo. *London*, 1850

WARREN AND FULLER, MESSRS. Report of the Trial of with reference to the Goldsmiths' Mark upon Plate, &c., at the Somersetshire Assizes, held at Taunton, 6th April, 1849; taken in Short-hand by William H. Isaacs. 8vo. *London*, 1849

WATCHES, Chronometers, &c., Titles of Patents relating to, from 1661 to 1857. MS. Folio

WATCH and Clock Making. Observations on the Art and Trade of. 8vo. *London*, 1812

WATCHMAKERS (*see* CLOCK *and* WATCH MAKERS).

WESTMINSTER Returns ordered by the House of Lords relating to the great Clock for the New Palace at. Folio, *London*, 1847

WESTMINSTER Portion of the Papers relating to the great Clock for the New Palace at. 4to. *London*, 1848

WESTMINSTER Returns to Parliament relative to the great Clock at. Folio, *London*, 1847—1852

WHITEHURST (JOHN), F.R.S. Tracts, philosophical and mechanical. 4to. *London*, 1812

WISE (HENRY) An Analysis of One Hundred Voyages to and from India, China, &c., performed by Ships in the Hon. East India Company's Service. 8vo. *London*, 1839

WOLLASTON (FRANCIS), F.R.S. Directions for making an Universal Meridian Dial capable of being set to any Latitude, which shall give the mean solar time of noon by inspection, without any calculation whatever. 4to. *London*, 1793

Digitized by Google

WOOD (EDWARD J.) Curiosities of Clocks and Watches, from the earliest times. 8vo. *London*, 1866

WORCESTER (MARQUIS of) Century of Inventions, edited by C. F. Partington, from the original MS., with historical and explanatory notes, and a biographical memoir. 12mo. *London*, 1825

Digitized by Google

YOUNG (THOMAS), M.D. Lectures on Natural Philosophy and the Mechanical Arts. (At the end is a Catalogue of Works relating to Natural Philosophy and the Mechanical Arts.) 2 vols. 4to. *London*, 1807

Digitized by Google

CHARTER, BYE LAWS, &c.

CLOCKMAKERS' COMPANY.—The Charter, Bye Laws, grant of Arms, Charitable Bequests, and other Official Documents illustrating the History of the Company Folio.

On the cover is an engraved brass plate, with the Arms of the City of London and the Company, bearing the following inscription—

"Death could not cause my love to dye;
My love doth live though dead am I."

The free guift of Richard Morgan to the Clockmakers of London. Symon Hackett, Master, 1647; Thomas Alcock, Onesiphorus Helden, wardens. Engraved by I. Droeshout, 176½,—a relative doubtless of Martin Droeshout, who engraved the Portrait of Shakespeare for the first edition of his works.

CLOCKMAKERS' COMPANY.—The Charter and Bye Laws, with several other matters connected with the history of the Company, also a List of the Masters from 1632 to 1716; Wardens from 1632 to 1712; Assistants from 1632 to 1697 Folio.

Note.—"This book is all that I had of Mrs. Goodwin, after her husband's desease, for my nine years' service in assisting him in the Clerkship of the Clockmakers' Company. The collection was made for his private use, and no ways belongs to the Company; when I die it will be worth to my successor (whomsoever he shall be) twenty guineas, which I charge them whose hands it shall fall into not to part with it under. Witness my hand, this 20th day of February, anno dñi. 1717. Francis Speidell."

"1st April, 1745.—The Renter Warden was desired to give a guinea to Mr. Shuckburgh for a Book, now produced, which appeared to be of the handwriting of Mr. Goodwin, a former clerk, containing copies of the Charter, Bye Laws, and other things relating to the Company."—*The Company's Records.*

Digitized by Google

CLOCKMAKERS' COMPANY.—Copy of the Charter incorporating the Company, with the Bye Laws, examined by Tutet and Howse. The Act of Common Council for Regulating the Fellowship authenticated by Mr. Town Clerk Hodges, 1765. 4to.

CLOCKMAKERS' COMPANY.—Copy of the Charter, Bye Laws, Act of Common Council, &c., with Index. Folio.

CHARTER, BYE LAWS, aud ACT of COMMON COUNCIL, for establishing and regulating the COMPANY, &c.

1. Copy of the Charter of Incorporation granted to the Company, dated 22nd of August, 7th Charles I., 1631.
2. Order to the Company from the Committee for Corporations appointed by Parliament to deliver the Company's Charter to be examined, 21st Dec., 1652.
3. Order referring the Charter for examination to John Farwell, Esq., Counsel to the Commonwealth.
4. Order directing the Charter to be returned to the Company, 27th Dec., 1652.
5. Letter from Ahasuerus Fromanteel as to the number of Apprentices admitted by the Company, 3rd March, 1656.
6. Order of the Company as to permitting foreigners to carry on the trade of Clockmaking and enrolling Apprentices, &c., 8th Sept., 1656.
7. Resolutions passed at a Meeting of the Freemen as to the management of the affairs of the Company, 8th Sept., 1656.
8. Petition of several Freemen of the Company to the Lord Mayor as to the Charter and the Rules made by the Company for regulating the Trade, 1656.

Digitized by Google

9. Order of the Lord Mayor directing that Thomas Loomes should only keep two Apprentices instead of five, 25th February, 1656.
10. Petition of divers Freemen of the Company to the Lord Mayor in favour of the proceedings of the Court of Assistants.
11. Petition of the Freemen to the same effect as the foregoing.
12. & 13. Answer of the Court of Assistants to the complaint of the Freemen and counter petition to the Lord Mayor.
14. Copy of a Petition to the Court of Common Council, and a Draft for an Act of Common Council which they submitted for approval. It was read in Common Council about July 1698, and supposed to have been thrown out before April 1699.
15. Report of Committee appointed by the Common Council to examine the Bill for regulating the Company, also a copy of the said Bill, 15th October, 1765.
16. Copy of the Act, 15th October, 1765.
17. Report of a Committee appointed by the Company to examine the Charter and Bye Laws of the Company, and to obtain Counsel's opinion as to the powers of the Company to compel Clockmakers, Freemen of other Companies residing within the City, or within ten miles thereof, to take up their freedom in this Company. Also as to compelling the Freemen of the Company to take up their Livery, &c.
18. Meeting of the Livery and Freemen of the Company as to the memorial presented by them to the Court of Assistants with reference to the grievance complained of, Feb. 26th, 1802.
19. Case with the Opinion of J. Adair, 10th Jan., 1796.
20. Case and Opinion of Mr. Serg$^{t.}$ Merewether, 3rd March, 1832.
21. Case and Opinion of J. Mirehouse, Feb. 19th, 1831.
22. Report of a Committee appointed to prepare a Classified Catalogue of all books, papers, and documents belonging to the Company, Jan. 7th, 1817.
23. Abstract of the powers of the Company, fees payable, meetings of the Court of Assistants, &c.

Digitized by Google

24. Report of a Committee appointed by the Court of Aldermen on petition of the Glass-sellers Company for a Livery, 8th May, 1712.
25. Petition of the Master Wardens and Assistants to the Court of Aldermen for a grant of a Livery.
26. & 28. Memorandum as to the Charter and Bye Laws of the Company, 1749.
27. Letter requesting the attendance of Aldermen at the Court of Aldermen on the 23rd June, 1749, when the Report of the Committee as to a grant of a Livery to the Company will be considered, signed by the Master Wardens.
29. Case and Opinion of Mr. Wilbraham with reference to a grant of Livery, 11th May, 1750.
30. Case and Opinion of Mr. Lloyd upon the same subject, April 23rd, 1750.
31. Report and Order of the Court of Aldermen for granting a Livery to the Company, 1st July, 1766.
32. & 33. Copy of the Petition of the Company to the Lord Mayor and Court of Aldermen for a grant of a Livery—attached to the petition are the names of the Members of the Company, 1766.
34. Report and Order of the Court of Aldermen for increasing the Livery of the Company to 200, 23rd June, 1810.
35. Report of the Committee of the Court of Aldermen, and order of that body increasing the Livery to 250, 11th April, 1826.

Several documents calling upon Members to take up their Livery.

36. Case referring to the powers of the Company as to the Livery fine.
37. Information against William James Burrowes for refusing to take up his Livery.
38. Case and Opinion of J. Mirehouse as to the powers of the Company for compelling Freemen of the craft to take up their Livery, 30th June.
39. to 47. Original letters as to taking up the Livery.

Digitized by Google

48. Memorial from some Freemen of the Company as to the management of the affairs of the Company, April 7th, 1817.
49. Reply to the Memorial of May 23rd, 1817.
50. Memorial from some of the Freemen with reference to the before-mentioned subject, 25th August, 1817.
51. & 52. Letters with reference to the foregoing.

APPRENTICES.

1. Opinion of Mr. Duncan Dee, one of the City Counsel and afterwards Common Serjeant as to the binding Apprentices, Feb. 22nd, 1699.
2. Copy of the Case and Opinion of Mr. Sam: Dodd and Con: Phipps, Jan. 31st, 1700.
3. Case as to the seizing of Watches belonging to Mr. Billic, 1686-1687.
4. The Petition of John Hutchinson as to improvements in the making of Watch-wheels.
5. Copy of the Petition of the Company of Clockmakers to the House of Commons against the above.
6. Reasons against.
7. Reasons in favour.
8. Further Reasons of the Company against.
9. Further Reasons in favour.
10. Report of the Company's proceedings in order to oppose the passing of a Bill in Parliament in favour of Mr. Hutchinson's Patent.
11. Instructions as to attending the Parliamentary Committee.
12. Names of the Committee.
13. Report of the Proceedings of the Company in opposing Clay's Patent.
14. Order of the Lord Mayor, 7th May, 1707, upon Mr. Abraham Fromantel on his refusal to serve the office of Steward.

Digitized by Google

THE PAYMENT of QUARTERAGE.

1. A Copy of the Oath of every Freeman of the Company of Clockmakers.

2. & 3. Cases and Opinion of Counsel as to the payment of Quarterage (Samuel Dodd and C. Phipps), 1700.

4. Attorney's Bill for business done in obtaining a Livery for the Company, 1766.

5. Attorney's Bill for obtaining Counsel's Opinion as to the payment of Quarterage, 1795.

6. Attorney's Bill upon application to Mr. Arnold to take up his Livery, 1796.

7. Abstract of the Charter of Incorporation and Bye Laws of the Company.

8. Declaration against John Allen for carrying on the trade of a Watchmaker, not being free of the Company, with the Opinion of William Lambe thereon, 7th May, 1787.

9. Declaration against John Allen to the same effect.

10. Judgement of the Mayor's Court against John Allen, 15th June, 1787.

11. Notes and Opinions of William Lambe, special pleader, in the suit against John Allen, 7th May, 1787.

12. Letter from James Freshfield as to the non-payment of his Quarterage. Order of the Court of Assistants to proceed against him for the amount, 10th October, 1796.

13. Another letter upon the same subject, 19th September, 1796.

14. to 16. Notice of Proceedings against, in the Court of Common Pleas, 19th November, 1796.

17. Declaration against James Freshfield in the Common Pleas for payment of Quarterage, 37th George III. (The case sets out the history of the Company, their charter, privileges, franchises, and jurisdiction.)

18. Instructions in the Case, February 6th, 1797.

19. Another copy of the Case.

Digitized by Google

20. Petition from Mr. Joseph Bramley, Citizen, and Founder to the Court of Aldermen, against being compelled to take up his Freedom in the Clockmakers' Company, 31st January, 1797.
21. Order of the Court of the Company, held at Founders' Hall, Lothbury, 2nd July, 1705, to summon Freemen for non-payment of Quarterage.
22. Report of the Committee appointed as to Quarterage.
23. Report of the Renter Warden, B. L. Vulliamy, as to members who have not paid their Quarterage, 30th November, 1818.

PAPERS, PETITIONS to PARLIAMENT, &c., relating to the IMPORTATION and EXPORTATION of WATCHES, CLOCKS, &c.

1. Copy of a Petition to the House of Lords against the running of prohibited goods, 12th March, 1717.
2. Petition to Parliament, as drawn by Mr. Wilkes, to the same effect.
3. Memorial of the Trade to the Company respecting the Importation of Foreign Watches, &c., signed by fifty-four members of the Trade, 15th September, 1780.
4. Order of the Treasury to the Commissioners of H.M. Customs as to the seizure of Watches, August 7th 1789.
5. On the distress of the Members of the Watch Trade.
6. Memorandum as to the exportation of Watches.
7. Copy of a Petition of the Goldsmiths' Company as to the proposed Act of Parliament for preventing the running of prohibited goods, Watches, &c.
8. Objections of the Watchmakers against some of the clauses of the proposed Act.
9. On the Fineness of the Gold and Silver used in the Manufacture of Watch-cases, 19th December, 1718.

Digitized by Google

10. Copy of a Clause to be inserted in the proposed Act of Parliament as to the exportation of Watch-cases, &c.
11. Minutes of the Company as to the seizure of goods by the Customs, with the price of certain Watches.
12. Draft of an Act of Parliament against enticing Artificers to emigrate.
13. Expenses for obtaining original order of King James.
14. Advertisement of the Company against engraving the names of good makers upon bad work, 18th December, 1777.
15. Letter from the Secretary of Customs as to the seizure of Watches, &c., 13th July, 1790.
16. Heads of the Clauses in the Bill proposed by the Committee of the Clock and Watch Trade, signed by G. Atkins, Clerk to the Company.
17. Letter from the Secretary of the Customs as to the seizure of Watches, 18th June, 1790.
18. Letter from Thomas Judson to the Company as to the necessary proceedings to be taken on account of goods seized, &c.
19. Letter from William Nodes to the Company as to Watches seized on his premises in Bond Street, September 4th, 1790.
20. Letter from Robert Mason to the Company as to Watches seized on his premises, No. 11, Strand, September 4th, 1790.
21. Letter from Her Majesty's Commissioners of the Customs for the attendance of Members of the Company at the Customs House with reference to the seizure of Watches, &c., 1st December, 1789.
22. Minutes of the Proceedings of the Court of Assistants of the Company as to the protection afforded by Act of the 9 & 10 of William III., February 22nd, 1790.
23. Minutes of the Proceedings of the Court of Assistants of the Company as to the Act of 9 & 10 of William III.
24. Letter of L. Naylor, Attorney, as to Proceedings to be taken in the Court of Common Pleas against the Officers of the Customs for seizing watches, &c., 28th November, 1789.

Digitized by Google

25. Letter from the Office of Trade, Whitehall, appointing a meeting with some members of the Company, 18th March, 1808.
26. Letter from J. Wilkes as to the Meeting of Parliament, 1808.
27. Letter from the Lords of the Treasury as to the exportation of Watches, 1st April, 1808.
28. Mr. Pengal's Memorial to the Customs.
29. Proposed Questions to be answered by the members of the trade as to engraving the name of the makers upon Watches.
30. Letter from the Lords of the Treasury as to the inspection of Watches for exportation, 24th May, 1808.
31. Memorandum as to the seizure of Watches, &c.
32. Letter from John Wilkes as to a conference with the Court of the Company.
33. Letter from the Secretary of Customs as to the exportation of Watches.
34. Printed Copy of the reasons humbly offered by the Goldsmiths' Company against the Clause proposed to be inserted in a Bill now before Parliament, giving liberty to export Clocks, Watches, &c.
35. Advertisement as to the Bill in Parliament.
36. Minutes of a Conference held between the Company and the Trade.
37. Report as to the steps taken by the Excise Officers.
38. Extracts from the Letters Patents of King Charles I., &c., granted to the Company.
39. Statement as to the decay in the Watch Trade, 25th September, 1812.
40. Report of the Committee to the Court of Assistants as to the watch belonging to Sir Charles Flint, 10th January, 1814.
41. Letter from J. Beckett informing the Court that M. Moreau had been sent out of the Kingdom by order of the Prince Regent, 14th January, 1814.
42. Letter from H. Clarke as to the Minute-Book of the Committee of Freemen and Apprentices.

43. to 45. Letters relating to the presentation of the Company's Petition to Parliament.

Digitized by Google

46. Letter of Thomas Day as to presenting the above Petition.
47. Draft letter as to an Application to Parliament.
48. Letter of J. Vulliamy upon an Application to Parliament.
49. Draft Report of the Committee appointed by the Court of the Company to frame such regulations as might assist the decayed state of the trade, 25th February, 1814.
50. Report of the Committee for the suppression of the malpractices of the trade, 29th April, 1814.
51. to 53. Three original letters from the Duke of Newcastle and others.
53A. Petition of the Company to Parliament as to the distressed state of the trade.
54. Letter from P. Moore, 3rd March, 1818.
55. Copy of the Resolution passed at a meeting held at the Freemasons' Tavern, as to Apprentices, &c., 14th January, 1814.
56. Copy of the Resolutions passed at a meeting of the Master Watch and Clock makers of London held for the re-establishment of the prosperity of their trade, 11th February, 1814.
57. Copies of the Resolutions passed at a meeting of the workmen in the Watch and Clock Trade, 11th February, 1814.
58. to 62. Letter, with printed Statement and Report of the Committee of practical artisans as to an application to be made to Parliament for an Act for remedying the importation, &c., of Watches, Clocks, &c.
63. Provisions of an Act of Parliament to be entitled "The Clock and Watchmakers' Act."
64. Notice of a Special Court of the Company, to be held on the 7th March, as to the passing of any measure in Parliament not having for its object the welfare and protection of the Company.
65. to 73. Petitions, Letters, Resolutions, &c., as to the passing of a measure for the relief of the Trade.
74. Circular issued by the Company as to the importation of foreign Watches, &c., 20th February, 1817.

Digitized by Google

74A. A Report of the present destitute state of the Working Watch and Clock makers, March, 1817.

75. to 78. } Letters upon the same subject.

79. to 81. } Letter and Memorial to Lord Viscount Sidmouth, Secretary of State, as to the destitute state of the Trade.

82. & 83. } Letter to, and answer of Lord Sidmouth upon the same subject.

GIFTS to the COMPANY for the POOR, &c.

1. Sir Robert Viner, Knt., Bond of, for repayment of £100 lent by the Company to him, being an assignment upon the Exchequer for £6 yearly from Lady-Day, 1678.
2. Assignment from Jane Goodwin, widow and executor of Thomas Goodwin, assignee of Sir Robert Viner, Knt. and Bart., of a yearly annuity of £3 to the Master Wardens and Fellowship of the Company, signed by Jane Goodwin, 18th January, 1706.
3. Letters of Administration under the seal of the Prerogative Court of Canterbury to Francis Speidell, to pay 3 per cent. per annum out of the exchequer to the Master Wardens, &c., of the Company from Jane Goodwin, executor of Thomas Goodwin, 31st March, 1708.
4. Assignment from Francis Speidell to the Master Wardens of the Company of the 3 per cent. per annum above mentioned, 13th November, 1708.
5. A paper referring to the above.
6. Official copy of the last Will of Thomas Goodwin, dated 13th June, 1694; also probate of the same.

Digitized by Google

7. Edward East, Deed of Gift from, of £100 to the Master Wardens and Fellowship of the Company, in trust, to pay to five freemen, or their widows, twenty shillings annually, by two half-yearly payments; signed by Edward East.
8. Henry Jones, Deed of Gift from, of £100 to the Master Wardens and Fellowship of the Company, in trust, to pay to five poor freemen, or their widows, twenty shillings annually, 20th June, 1693; signed by Henry Jones.
9. Charles Gretton. Deed of Gift, dated the 1st of September, 1701, between Charles Gretton and the Master Wardens and Fellowship of Clockmakers, giving upon trust to the Company the sum of £50, to pay yearly the sum of fifty shillings to apprentice the sons of deceased Freemen of the Company to the trade of Watch or Clock making (signed by Charles Gretton). There is an endorsement upon the back of the deed, altering and amending the gift. It is dated the 4th of July, 1715, and signed by Charles Gretton and the Master and Wardens.
10. to 20. Bank Stock. Original Receipts for the Bank of England Stock, 1697; with receipts for interest upon, 1701, &c.
21. Samuel Wilson. Extract from the Register of the Prerogative Court of Canterbury, of the last Will and Testament of, leaving money to be let out on loan to young tradesmen.
22. Devereux Bowley. Extract from the Will of, leaving £500 4 per cent. Bank Annuities to the poor of the Company.
23. & 24. William James Frodsham. Extract from the Will of, leaving £1,000 3 per cent. Bank Annuities to the poor of the Company, 1850.
25. & 26. Samuel Fenn. Letter from Joseph Fenn, enclosing an Extract from the Will of his late uncle, Samuel Fenn, leaving £200 Bank Stock to the poor of the Company, 1821.

Digitized by Google

Charities of the Company.

27. Letters from Nicholas Carlisle, Secretary to the Charity Commissioners, for a return of all Charities connected with the Company, September 25th, 1820.
28. Copy of the Commission.
29. Letter from Nicholas Carlisle, enclosing a copy of the Commissioners' Report upon the Charities of the Company.
30. Printed Copy of the Charities of the Company.
31. to 39. Letters from Charity Commissioners, under 16 & 17 Vict. cap. 137, as to the Charities of the Company.

Non-Freemen and Apprentices.

40. Order of the Recorder of London to compel persons carrying on the trade of Watch and Clock makers to become free of the Clockmakers' Company, 4th August, 1641.
41. Informations against persons using the Art of Watch and Clock making who had not served their apprenticeship thereto, 1652-4.
42. Letter addressed to the Court of the Company, for redressing the grievances suffered by the Trade, 1656, signed by the Members.
43. Heads of Ordinances referring to the employment of Foreigners and Non-Freemen in the Art of Watchmaking, ordered to be printed (two documents).
44. Copy of Advertisement respecting bad work to be inserted in the Newspapers.
45. A List of the number of Apprentices bound, copied from the Orphan Books.
46. A List of the Watch and Clock makers who keep shops within the City of London, and are free of the Clockmakers' Company, and a List of those who are not free.
47. & 48. Memorial from the Members of the Trade to the Court of Assistants, against Non-Freemen exercising the craft of Watchmaking, with the Answer of the Court thereto.

Digitized by Google

49. Forfeits in the Company for Non-appearance by the hour appointed.

50. to 55. Several Papers, Letters, &c., upon Apprentices, &c.

56. to 65. Papers and Letters referring to dispute between the Spectacle Makers' Company and the Clockmakers' Company.

PROCEEDINGS as to the GRANTING of LETTERS PATENT for IMPROVEMENTS in WATCHMAKING, &c.

1. Order of the King in Council, 2nd March, 1687, setting forth that his Majesty having appointed the 24th February last to hear the Master Wardens and Assistants of the Fellowship of the Clockmakers' Company against the granting of a Patent for the making and managing all Pulling Clocks and Watches, usually called repeating clocks, to Edward Barlow; and after hearing both parties by their counsel, ordered that no Patent be granted.
2. Observations upon the Jewelled Watch named Ignatius Huggeford. This watch had been produced before the Committee of the House of Commons, and confirmed them against granting the Patent applied for by Nicholas Facio, Peter Debaufree, and Jacob Debaufree. The watch had a stone fixed in the cock and balance work. This Paper gives a most interesting account of the Maker.
3. Jewelling Watches, Clocks, &c. Copy of a Petition of Nicholas Facio, Gent., and Peter Debaufree, and Jacob Debaufree, Watchmakers, to the House of Commons, 6th December, third year of the reign of Queen Anne. It sets forth that Her Majesty had

Digitized by Google

granted by Letters Patent to the said Petitioners, the sole use and exercise within the United Kingdom, and her other dominions, of a certain Art or Invention, or working or figuring precious or more common stones, and made use of in clock or watch work for fourteen years; but that on acccount of the expenses of improving the invention, &c., soliciting a longer term of years. Leave given to bring in a Bill, 9th December. Bill brought in by the Marquis of Hartington to carry out the object of the Petition, and read a first time.

14th December, read a second time.

18th December, Petition of the Clock and Watch Makers in and about the Cities of London and Westminster with reference to the above, presented to the House of Commons, referred to the Committee to whom the Bill had been referred, with leave to the Petitioners to be heard by counsel before the Committee.

4. to 37. Letters, Petitions, &c., on the subject of Clay's Patent for Repeating Watches, with copy of Letters Patent, &c.

38. Copy of Letters Patents granted to Joseph Bosley, of Leadenhall Street, for improvements made in watches, by George II.

39. Copy of Mr. Bosley's Petition for a Patent, with Mr. Murray's opinion thereon, January, 1755.

40. Extracts from Acts of Parliament for preventing frauds in gold and silver wares, &c.

41. Letter from Thomas Lane, Clerk of the Goldsmiths' Company, upon the above subject, 7th May, 1788.

42. Report of the Committee appointed by the General Meeting of the Clock and Watch Makers of the Cities of London and Westminster, 3rd December, 1789.

43. to 77. Letters and Opinions of the Members of the Trade, in answer to questions proposed to them by a Committee of the Company as to engraving the name of the makers upon watches and clocks, and pirating the name of any maker upon either watches or clocks.

78. Report of the Committee appointed by the Company upon the above question, with a fair copy of the correspondence, opinions, &c.

Digitized by Google

79. & 80. Correspondence between the Company and Privy Council for Trade, &c.; and draft of a proposed Act of Parliament for regulating the importation and exportation of watches, &c.

81. Copy of a Bill for regulating the importation of clocks and watches, &c.

82. & 83. Sketch of a Bill to the same purpose.

84. Extracts made by order of the Company as to pirating the names of good makers to bad work.

85. Memorial of the Master, Wardens, and Court of Assistants to the Committee of the Lords of Trade, 1809.

86. Letter from the Goldsmiths' Company to the Clockmakers' Company, 28th October, 1812.

87. Statement of the number of gold and silver watch-cases marked at Goldsmiths' Hall from 1791 to 1797.

88. to 133. Letters, Opinions, Reports, &c., with reference to the marking of gold and silver watch-cases, bows, and pendants, &c.

134. Letter from the Secretary of the Customs as to the duty to be levied upon watches, &c., 30th June, 1812.

135. Letter from the Goldsmiths' Company to the Lords of Trade as to County Hall Marks upon watch-cases, &c., 19th June, 1830.

136. to 138. Copy of a Memorial from the Clockmakers' Company to the Lords of the Treasury as to the above question, 1830.

139. Letter from Spring Rice to the Company as to the importation of foreign clocks, watches, &c., 2nd March, 1832.

140. Copy of an Advertisement upon the same subject.

141. & 142. Returns of the number of watches imported without paying duty from 1829-32.

143. Copy of a Memorial of the Company to the Board of Trade, praying them to take steps for the protection of the trade.

144. to 161. Letters as to marking Foreign Clocks, Watches, &c., with the names of English Makers, &c., &c., 1839-42.

Digitized by Google

COMPANIES for MAKING WATCHES, &c.

1. to 8. Letters, &c., as to the importation of watches, &c.

9. to 15. Letter, Prospectus, Statement, &c., of the British Watch and Clock making Company.

16. *Neuchâtel Gazette*, with an account of Ingolts's Patent for watch-making, 13th April, 1843.

17. The Prospectus of the National Company for the Manufacture of Watches.

18. The Prospectus of the Patent Chronometer Watch and Clock Company, Philcox's patent.

19. Indenture from the Lords of the Treasury, depositing three standards of brass for measuring, 4th September, 1671.

20. Order of the Lord Mayor (Abney), inflicting a fine of £10 upon Mr. Fromanteel, for refusing to serve the office of Steward of the Company.

21. to 25. Case and Opinions as to the powers of the Company for compelling persons living within the City and its Liberties, and carrying on the trade of watchmakers, to be made free of the Company.

26. Letter from the Lord Mayor and Court of Aldermen to the Company, for a contribution towards defraying the expenses incurred in maintaining the Troops sent into the City for the protection of public and private property during the late tumults, 19th July, 1780.

27. Letter from the Lord Mayor (Plomer), enclosing a copy of a letter received from the Earl of Selburne for augmenting the domestic forces of the nation.

28. Letter to the Company from the Sheriffs of London as to a grant of money to assist the Society for the Discharge of the Persons Confined for Small Debts, with a view to celebrate His Majesty's 50th anniversary of accession to the Throne, 20th October, 1809.

29. Reply of the Company.

Digitized by Google

30. Letter from Peter Lock, Dep. Patent Searcher, London Docks, as to the seizure of 140 Watches made by Jew Watchmakers, with fictitious names, intended for exportation to Charlestown, 11th August, 1810.
31. Letter from Henry Clarke as to a certificate being given by the Company to Freemen, 8th October, 1812.
32. Letter announcing the death of Mr. Henry Potter, Master of the Company, 4th September, 1813.
33. Letter of Henry Clarke, returning an old watch and various movements.
34. & 35. Letters as to Officers of the Company.
36. Letter from Charles Smith, testifying that William Gammon had served his apprenticeship with him, and requesting that he may be admitted to the Freedom of the Company.
37. A Protest against the Proceedings of the Company, signed by Isaac Rogers and Henry Clarke, 25th February, 1814.
38. to 40. A List of the Books, Charter, Bye-Laws, Deeds, and Property of the Company, signed by Members of the Court, 1817 to 1818.
41. to 45. Letters, Resolutions, Petitions, &c., relative to the Warehousing Bill now before Parliament, June, 1822.
46. Copy of an Original Letter from Mr. Thomas Reid, of Edinburgh, to Mr. B. L. Vulliamy, 26th January, 1821.
47. to 49. Two Letters from the Hon. Anne Seymour Damer, presenting a foreign Watch to the Company's Collection; with the thanks of the Court for the same, 1817.
50. Letter from Mr. William Harris, refusing to present the Resolution of the Company to the Duke of Sussex, 11th January, 1817.
51. Copy of the Resolution.
52. Report of a Committee to the Court as to the Refusal of Mr. Harris to present the Resolution of the Court, 3rd February, 1817.

Digitized by Google

53. Memorial from the Liverymen and Freemen of the Company as to the presentation of the Freedom of the Company to the Duke of Sussex, signed by thirty-four Members, 3rd February, 1817.

54. & 55. The Distress in the Watch and Clock Trade in the Parish of St. Luke's, 1816 and 1817.

56. Copy of an Advertisement of Mr. Fearn as to Porcelain and Bronze Clocks, &c., 1832.

57. Letter from Wm. Auld, Esq., presenting an engraved Portrait of Mr. Reid, 1831.

58. Copy of a Letter from the Clerk of the Company as to putting up the Arms of the Company in one of the windows of the New Hall at Christ's Hospital, 10th March, 1841.

59. Thanks to the Governors of the Hospital for the same, 13th March, 1841.

60. & 61. Letters from Charles Frodsham, Esq., presenting a copy of the portrait of his father, 1858.

62. Letter from Thomas Reid, thanking the Court of the Company for electing him an Honorary Member, 6th December, 1825.

63. & 64. Letters from R. Hartley Kennedy, Esq., to the Company, as to presenting the Honorary Freedom of the Company to Sir Jamsetjee Jeejeebhoy, Knt., 1855.

65. Printed Paper referring to the same.

66. Original Letter from Cursetjee Jamsetjee, acknowledging the Honorary Freedom of the Company. Bombay, 31st March, 1855.

67. Original Letter from Sir Jamsetjee Jeejeebhoy, acknowledging the Honorary Freedom of the Company. Bombay, 3rd March, 1855.

68. Letter enclosing a Bank Post Bill for £150, to the Charitable Fund of the Company, from Sir Jamsetjee Jeejeebhoy.

69. Copy of Letter of Thanks from the Company for the same, July 7, 1855.

70. & 71. Letter of Thanks from Cursetjee Jamsetjee and Sir Jamsetjee Jeejeebhoy, 26th June, 1855.

Digitized by Google

72. & 73. Letters from Judge Halliburton, regretting that his immediate return to America will prevent him from becoming a Member of the Company, 9th May, 1855, and 10th February, 1857.

73. Letter from R. Hartley Kennedy, Esq., as to investing the Funds of the Company, March 29th, 1855.

74. Letter from R. Hartley Kennedy, Esq., upon his election to the office of Sheriff of London and Middlesex, September, 1855.

75. to 84. Letters and Memorial with reference to R. Hartley Kennedy's affairs, 1858.

85. to 94. Letters, Reports, and Memorandum with reference to the Library of the Company.

95. to 101. Letters, Petitions, and Documents with reference to the Charitable Trusts Bill.

102. Documents relating to a Clock for the Royal Exchange, July 19th, 1843.

103. Transcript of Notes taken at the Mansion House upon Mr. Anthony Myers being charged with having six gold watches with the forged marks of the Goldsmiths' Company upon them, 9th May, 1850.

TAX UPON CLOCKS, WATCHES, &c.

1. Proposed Alterations and Additions to the Act of Parliament for enabling His Majesty to levy a Tax on Foreign Clocks and Watches.

2. Return to Parliament of the number and amount of Licences granted for selling Gold or Silver Plate in Great Britain for ten years, from 1807 to 1816.

3. to 17. Petitions of distressed Watchmakers of Coventry, London, Roxburgh, &c., to Parliament, and Proceedings thereon.

Digitized by Google

18. Heads to the Clauses in the Bill proposed by the Committee of the Watch and Clock Trade.
19. Proposed Alterations and Additions to the Act of Parliament for enabling His Majesty to levy a Duty on foreign Clocks and Watches.
20. A Bill for more effectually discovering the Longitude at Sea, &c., 9th March, 1818.
21. A Bill to regulate the Manufacture of Clocks and Watches, 14th June, 1819.
22. Memorial of the Company to the Treasury, March 5th, 1830.

23. to 43. Letters, Returns, &c., as to the stamping of all foreign Watches, and levying a Duty thereupon, &c.

44. A Return to Parliament of the number of Metal Clocks and Watches, and of Movements, &c., Exported and Imported since 1825, 5th July, 1833.
45. Advertisements cautioning the Public against purchasing Foreign Watches with English makers' names fraudulently affixed to them, 1823.

46. to 69. Letters, &c., upon the Illicit Importation of Clocks, Watches, &c.

70. to 77. Letters, &c., upon the Seizure at the Customs of Watch-dials, Watches, &c.

78. Petition of the Company to the House of Commons as to the Seizure of Watches, &c., by the Customs, and the Sale thereof, February 8th, 1849.

79. to 91. Letter upon the same subject.

92. & 93. Memorials from the Company as to the Importation of Foreign Clocks, Watches, &c., 1851-52.

Digitized by Google

LETTERS and CORRESPONDENCE with the LORDS of TRADE on the ADJUSTMENT of COUNTERVAILING DUTIES of CLOCKS, WATCHES, &c., 1786-7.

Presented by Mr. BENJ. L. VULLIAMY, December, 1812.

1. & 2. Letters from Mr. Cottrell to Mr. Vulliamy, 1786-7.
3. Suggestions as to marking foreign Watches, Clocks, &c.
4. Letter from F. Upjohn upon the same subject.
5. Suggestions for a Duty upon Watches, Clocks, &c.
6. Letter from Mr. Tutet, Master of the Company, upon the proposed Duties, 16th January, 1787.
7. Letter from S. Cottrell to Mr. Vulliamy, appointing a meeting with the Lords of Trade, 21st February, 1787.
8. Copy of Questions delivered by order of the Lords of the Committee of Council for Trade to Messrs. Vulliamy, Upjohn, Jackson, and Potter, for their answer in writing.
9. Copy of a Bill for granting to His Majesty certain Duties on Clocks and Watches, with MS. alterations in the margin.
10. MS. Alterations to be made in the above.
11. Representation of the Master, Wardens, and Court of Assistants, to the Right Hon. William Pitt, Chancellor of the Exchequer, &c., as to the proposed tax upon clocks and watches, 6th July, 1797.
12. to 14. Statements submitted to the Chancellor of the Exchequer by the Master of the Company upon the subject of a new standard for gold.
15. & 16. Copy of a Letter from Mr. G. Rose, enclosing a Statement from the Goldsmiths' Company submitted to Mr. Pitt, 14th July, 1797.
17. Letter from George Rose, stating Mr. Pitt's views as to the proposed Bill, 18th July, 1797.

Digitized by Google

18. Memorial of the Company to Mr. Pitt as to the proposed Tax upon Watches, Clocks, &c., 28th November, 1797.
19. The Number and Weight of Gold and Silver Watch-cases marked at Goldsmiths' Hall in 1796 and 1797.
20. Copy of a Petition from the Company, praying for the Repeal of an Act for Levying a Duty upon Watches, Clocks, &c., 1798.
21. to 32. Letters, Memoranda, &c., referring to the Tax upon Watches, &c.

LIBRARY COMMITTEE.

Library Committee. Minute-Book of the Library Committee, 1814 to 1836. Folio.
Cash-Book, 1714 to 1828. 4to.
Catalogue of the Library. 3 vols. 4to.
Issue-Book from 1819 to 1841. 4to.

Digitized by Google

PRINTS OF CLOCKS

AND

DESIGNS FOR CLOCKS.

A Collection of PRINTS of CLOCKS and DESIGNS for CLOCKS, &c. Presented by the late B. L. VULLIAMY.

1. Astronomicall and Chronologicall Clock, shewing all the most usefull parts of an almanack, by Jos. Naylor, near Namptwich, Cheshire, 1750-1.
2. Description de l'Horologeque Messieurs Les Comtes de Lyon ont fait faire dans l'Église de St. Jean l'année, 1660, Opera et Studio Guillelmi Noorrisson Lugduni. Thourncyfor sculp. 1677.
3. The same, a later edition.

STRASBURG. The famous CATHEDRAL CLOCK, Views of.

4. Horologium Astronomicum Argentoratense (with a description of the same in French).
5. Vera effigies ac descriptio Astronomici Horologii Argentinensis in summo Templo extructi anno Christi M.D.LXXIV.
6. Horologium Astronomicum Argentoratense (with a description of the work in Latin).
7. Eigentliche Fürbildung und beschreibung desz Kunstreichen Astronomischen uhrwercks zu Straszburg. Brunn sculp. (Description in German.)

Digitized by Google

8. Eigendliche Fürbildung und beschreibung desz newen Kunstlichen Astronomischen uhrwercks zu Straszburg im Mönster disz, 1574, Jahr vollendet zusehen. (Description in German.)
9. L'Horologe de Strasbourg.
10. A true figure of the famous Clock of Strasbourg.
11. A small view of the Clock.
12. The Microcosm, with portraits of Sir Isaac Newton and Mr. Henry Bridges.
13. A design for a Clock, xxxi.
14. A design for a Clock, with striking-bells.
15. A design for a Clock, xxviii.
16. A new and accurate Geographical Clock, shewing the time of day or night at most of the principal places of the world at one view, by John Gibson, 1761.
17. A design for a Clock, Philips del. et sculp., 1721.
18. A perspective view of the Altitude and Azimuth Instrument recently erected at the Royal Observatory, Greenwich, 1847, Hare del. et sculp.
19. The very extraordinary Sun-Dial facing the market-place at Settle, in the West Riding of Yorkshire. Buck and Feary del. et sculp., 1778.
20. A very curious and early wood engraving [of a Village Fair], shewing the church with a Clock in the tower, H. S. Beham, of Nuremburg, 1531-1549. [The works of this artist are now exceedingly rare].
21. An extraordinary Clock, the production of Jacob Lovelace, of Exeter; it took thirty-four years to complete the work; he died in 1716. The move ments are — 1st, a moving panorama, descriptive of day and night; day is beautifully represented by Apollo in his car drawn by four spirited coursers, accompanied by the twelve hours; and Diana in her car drawn by stags, attended by the twelve hours, represents night. 2nd, Two gilt figures in Roman costume, who turn their heads and salute with their swords as the panorama revolves, and also move in the same manner while the bells are ringing. 3rd, A perpetual almanack, shewing the day of the month on a semicircular plate, the index returning to the first day of every month on the close of each month

Digitized by Google

without alteration, even in Leap Years, regulated only once in 130 years. 4th, A circle, the index of which shews the day of the week with its appropriate planet. 5th, A perpetual almanack, shewing the days of the month weekly, and the equation of time. 6th, A circle shewing the Leap Year, the index revolving only once in four years. 7th, A timepiece, that strikes the hours and chimes the quarters, on the face of which the whole of the twenty-fours hours (twelve day and twelve night) are shewn and regulated. Within this circle the sun is seen in his course with the time of rising and setting by a horizon receding or advancing as the days lengthen or shorten; and under is seen the moon, shewing her different quarters, phases, age, &c. 8th, Two female figures, one on each side of the dial-plate, representing Fame and Terpsichore, who move in time when the organ plays. 9th, A movement regulating the clock as a repeater to strike or be silent. 10th, Saturn, the god of Time, who beats in movement while the organ plays. 11th, A circle on the face shews the names of ten celebrated ancient tunes played by the organ in the interior of the cabinet every four hours. 12th, A belfry with six ringers, who ring a merry peal *ad libitum;* the interior of this part of the cabinet is ornamented with beautiful paintings representing some of the principal ancient buildings of the city of Exeter. 13th, Connected with the organ there is a bird-organ, which plays when required. Hackett, Litho., 1833.

22. A self-moving wheel for the working of all manner of wheelwork, described in the *Gazetteer* of June 15th, 1749.

Digitized by Google

A LIST OF WATCHES, WATCH MOVEMENTS, CLOCKS, &c.

ADDIS, Cornhill, London.

William, the son of Robert Addis, of Bristol; apprenticed to George Sims May 1, 1738; made Free of the Company February 3, 1745; elected on the Court of Assistants April 2, 1759; served the office of Warden 1761-63; Master, 1764-5.

1. Gilt Movement (partially to pieces), No. 2611.

Presented by F. B. ADAMS, 1869.

ANDERVALT, PASQUALE, Trieste.

2. A HYDROGEN GAS CLOCK. The motive power of this CLOCK is hydrogen gas generated by the action of diluted sulphuric acid on a ball of zinc. The gas, thus formed, forces upwards a bell-shaped glass-receiver, which keeps the clock going until it nearly reaches the top of the coloured glass jar, when, by the action of a delicate lever, two valves are opened simultaneously, one allowing the gas to escape, thereby causing the receiver to descend, and the other permitting a fresh zinc pellet to fall into the acid. The same operation is repeated as long as the materials for making the gas are supplied, and this is effected without winding or manipulation of any kind.

Presented by Wm. WING, 1874.

Digitized by Google

ANONYMOUS.

3. An ALARUM, in a beautifully engraved and pierced silver case, silver dial, with enamel figures.

This has been constructed to be used in conjunction with a watch or timepiece, having a hollow square for the insertion of the fuzee arbor; the watch so used driving the motion-work of the alarum.

4. A SILVER ALARUM, intended to be applied to the fuzee of a watch.

5. A GILT OPEN-FACE WATCH, with gold dial, horizontal escapement. No. 16023.

This watch plays a tune at each hour, and can be made to play at pleasure.

Presented by F. B. ADAMS, 1870.

6. A SMALL OCTAGON WATCH, in a CRYSTAL CASE, engraved and gilt dial, hour hand only, with raised pins at each hour for feeling the time at night, called a "Touch Watch." A curious specimen of the Art.

Presented by Mr. AULD, 1825.

7. AN OVAL SECONDS WATCH, with enamel dial, duplex escapement. An early specimen, formerly enclosed in a locket.

Presented by Messrs. F. B. ADAMS & SONS, 1849.

8. A SMALL SQUARE-WEIGHT BALANCE TIME-PIECE, hour hand only, silver dial, brass case, beautifully engraved and gilt. The subject being warriors on either side, and in the front a view of a town. At the top death's head and hour-glass, with the motto, "Respice finem." It is in a good state of preservation, is an interesting specimen of the Art, and considered unique.

Presented by GEORGE ATKINS, Clerk of the Company.

9. A Very Small Horizontal Movement, formerly set in a ring.

Digitized by Google

10. A Very Small Vertical Movement. No fuzee. Probably intended for a ring.

11. Part of an old French Eight-day Watch Movement, with two barrels in gear by teeth on rim, fuzee and chain, vertical escapement.

Presented by CHARLES FRODSHAM & Co., 1875.

12. An Early Specimen of Duplex Escapement.

13. A Very Fine Specimen of a Centre-Seconds Lancashire Movement.

Presented by Messrs. F. B. ADAMS & SONS, 1848.

14. A Vertical Lancashire Movement.

Presented by Messrs. F. B. ADAMS & SONS.

15. A White Skin Case, with Silver Mounting. A very beautiful specimen of case jointing.

Presented by JOHN GRANT, 1874.

16. A Black Enamelled Case, ornamented.

17. Outer Case of a Watch, engraved and gilt, with an enamel portrait of a lady.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1873.

18. Two Antique Movements, with wheels, pivotted. Found in the Company's chest.

19. Two Movements, with square-cut teeth. One a repeater, the other uncertain.

20. A Large Pocket Chronometer, Lancashire Movement.

Presented by F. B. ADAMS, July, 1869.

21. A Movement for a small Pocket Chronometer.

Presented by F. B. ADAMS, July, 1869.

Digitized by Google

22. Two Skeleton Movements.

Presented by F. B. ADAMS, 1869.

23. An Ancient Movement, with Tulip pillars.

24. An Ancient Movement, with Tulip pillars.

25. Two Movements by Ackers. 1778.

26. An Antique Movement, with Tulip pillars.

27. An Antique Movement, with peculiar Tulip pillars.

28. Regulator Pallets.

Presented by B. L VULLIAMY.

29. Nine Dials, some enamelled on gold.

30. An Enamelled Gold Dial, with seconds.

Cost of Manufacture, £1 17*s.* 0*d.*

Presented by J. B. VULLIAMY, 1778.

31. A Small Antique Breguet Key.

Presented by Mr. WEBSTER.

32. Several Early Watch-keys.

33. Two Gold Antique Watch-keys, one of them enamelled.

Presented by JOHN GRANT, 1875.

34. A Rude Specimen of a Wheel-cutting Machine, to be used in the vice.

Presented by GEORGE PHILCOX, 1875.

35. A Plain Vertical Repeating Movement, of French manufacture, with enamel dial, chiefly remarkable for its diminutive proportions.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

Digitized by Google

36. A Very Thick Vertical Movement. The engraving of the cock and slide are of a very rude character, indicating an early period of manufacture.

Presented by EDWARD STREETER, 1875.

37. Four sets of Antique Watch Pillars, of Lancashire manufacture.

Presented by C. R. HARLE, 1875.

ANOGENT ANGUIER.

38. A SILVER-GILT OVAL HUNTING WATCH, silver engraved edge. Made previous to the introduction of chains, gilt and engraved allegorical dial.

Presented by CHARLES THISTLETON, of Whitehall Place.

ARNOLD, JOHN.

39. A fine old specimen of a POCKET CHRONOMETER, in silver-gilt case. Pivot detent escapement, with figure S compensation pieces carrying weights in direct line to centre of balance, re-sprung by Charles Frodsham for the purpose of testing the compensation, No. 28.

Presented by CHARLES FRODSHAM & Co., 1875.

40. Specimen of a one-day MARINE CHRONOMETER, in octagon case, enamel dial, epicycloidal escape-wheel, adjusting balance spring stud, No. 14.

Presented by CHARLES FRODSHAM & Co., 1875.

41. A fine specimen of a two-days MARINE CHRONOMETER, in octagon case, with glass bottom and medallions at side, enamel dial, epicycloidal escape-wheel, movement jewelled to the centre wheel, gold balance spring, No. ~~181~~ 191.

Presented by CHARLES FRODSHAM & Co, 1875.

ATKINS, FRANCIS.

Born in 1730; apprenticed to Joshua Hassell December 1, 1746; admitted to the Freedom, April 2, 1759; to the Livery, December 4, 1769; chosen on the Court of Assistants April 5, 1773; served the office of Warden 1777-79; chosen Master, Septem-

Digitized by Google

ber 29, 1780; elected Clerk of the Company, December 5, 1785; succeeded upon his decease by his son George Atkins, December 22, 1809.

42. Plain Vertical Movement, No. 3659.

Presented by his Grandson, S. E. ATKINS, 1875.

BARON, JEAN, Utrecht.

43. Vertical Movement, with pierced pillars, enamel dial.

Presented by EDWARD STREETER, 1875.

BARRONNEAU, L., Paris.

44. French vertical Movement, without dial, made previous to the introduction of chains, hour-wheel turned by a lanthorn pinion on fuzee arbor.

Presented by B. L. VULLIAMY, 1816.

BARROW, NATHANIEL, Londini.

Apprenticed to the Company, 26 January, 1653; made Free, 28 January, 1660; chosen to the office of Warden, 14 October, 1685; Master, 29 September, 1689.

45. Silver Double-case Astronomical Watch, denotes the hours, days of the week, months of the year, equation, moon's age, &c.

46. Metal Double-case Repeating Watch, with enamel dial, the inner case pierced and gilt.

Presented by JOSEPH FENN, 1862.

BARTHET, E. A., Marseille.

47. Thirty Hour Marine Chronometer, of French manufacture. Name, Barthet, No. 10. A very fine specimen of highly finished work; has a beautiful proportioned barrel pendulum spring. The hours, minutes, and seconds are shown on distinct circles. It has also a metallic thermometer, the arrangements for which are between the dial and pillar plate, the scale, Reaumer's,

Digitized by Google

being indicated on the dial-plate by a delicate hand traversing about 150 degrees.

This chronometer was picked up at sea from an abandoned vessel by the late Sir Wm. Walker, in the year 1846, when in command of the "Monarch," belonging to Messrs. Green, of Blackwall, and was purchased of him for fifteen pounds by Messrs. Brockbank & Atkins.

Presented by Deputy S. E. ATKINS, Clerk of the Company, sole representative of that Firm, 1875.

BETTS, SAMUEL, Londini.

Apprenticed to Samuel Davis, for Job Betts, 7 October, 1675; made Free of the Company, 7 October, 1682.

48. GREEN ENAMELLED GOLD WATCH (case damaged), case enamelled, with landscapes inside, green enamelled dial, hour-hand only.

Purchased by the Company, 1816.

BINKS.

49. Gilt Lever Movement, jewelled throughout, capped, No. 759.

Presented by F. B. ADAMS, 1869.

BIZOT, à Paris.

50. A large thick Vertical Movement, with rack and pinion, regulator cock pierced and engraved.

Presented by B. L. VULLIAMY, 1849.

BORRETT, GEORGE, Stowmarket.

51. Plain Vertical Movement, with square pillars, enamel dial. The cock and dial elaborately pierced and engraved, No. 120.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

BOYS, A., and DUDUICT, JACQUES.

52. An ANCIENT CLOCK WATCH, striking on a bell, silver hour circle, hour hand only, the case gilt, pierced, and engraved. It had originally catgut and without pendulum spring, which has since been added, gilt en-

Digitized by Google

graved face, subject—Actæon. "He saw Diana and her attendants bathing near Gargaphia, and for his rashness in approaching the place, the goddess sprinkled water over him, and he was changed into a stag and devoured by his own dogs."—LEMPRIERE.

Presented by C. R. FLETCHER LUTWIDGE, Esq., Holmrook Hall, Carnforth, through W. WING, Oct., 1874.

BRADFORD, Strand.

53. Silver pair case open-face Watch, with enamel dial, No. 115.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

BRADLEY, LANGLEY, London, N. R. O.

Apprenticed to Joseph Wise, 14 February, 1687; made Free of the Company, 14 February, 1694; served the office of Warden, 1724-26; Master, 1726.

54. Repeating Movement, with Stockden motion.

BRÉGUET [ABRAHAM LOUIS].

55. A small Movement, injured by fire.

Presented by B. L. VULLIAMY, 1849.

BRÉGUET [ABRAHAM LOUIS].

56. Movement only, single hand, ruby cylinder, parachute and compensation, winds up from the centre, No. 1603.

Sold to Mr. Menard by the above Firm in 1806. Cost 840 francs. Purchased by the Company, for £6 10s., in 1853.

BRÉGUET, à Paris.

57. A GOLD OPEN-FACE MINUTE REPEATING WATCH, with Stockden motion. A very beautiful specimen, No. 128.

Presented by F. B. ADAMS, 1870.

Digitized by Google

BROCKBANK, JOHN, London.

Apprenticed to Jos. Hardin, July 28, 1761; admitted a Freeman of the Company, January 16, 1769; and made a Liveryman, April 7, 1777.

58. Horizontal Centre, Seconds Movement, with going fuzee, enamel dial, capped, beautifully engraved cock and name-piece, No. 1617.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

59. A Machine for calculating the distance travelled by wheeled carriages, made by the late Mr. John Brockbank for his own use, and attached to his gig.

Presented by Mr. Deputy ATKINS, Clerk of the Company, sole representative of the Firm of Brockbank & Atkins, 1875.

BROCKBANKS, London.

John and Myles Brockbank. For John, see above. Myles, the son of Edward Brockbank, of Corners, in Cumberland; apprenticed to his brother John, of 17, Old Jewry, February 1, 1769; admitted a Freeman, July 8, 1776.

60. THIRTY HOUR MARINE CHRONOMETER, about the date 1780, and has an escapement known as the cross spring escapement, upon Earnshaw's principle, a description of which will be found in Earnshaw's Appeal, printed in 1808, and described as an evasion of his patent, with a bitter invective by the author against John Brockbank, whom he charged with having pirated his invention, No. 449.

Presented by Deputy S. E. ATKINS, Clerk of the Company, and sole representative of the Firm of Brockbank & Atkins, 1875.

CABRIERE, CHARLES, London (Broad Street).

Made Free of the Company in 1726; chosen on the Court of Assistants, 4 Oct., 1750; served the Office of Warden in 1754-57; elected Master of the Company, 29 Sept., 1757.

61. Vertical Bell Repeating Movement, No. 2572.

Presented by B. L. VULLIAMY, 1816.

62. Gilt Movement, highly wrought scroll pillars, No. 6017.

Presented by F. B. ADAMS, July, 1869.

Digitized by Google

63. Vertical Movement, with enamel dial and chased pillars, No. 908.

Presented by EDWARD STREETER, 1875.

CARGUILLOT, JEHAN, Abbeville.

64. LARGE SILVER CLOCK and ALARM WATCH, case pierced and engraved, gilt dial, with enamel hour circle.

Purchased by the Company, for £5, at Windsor, 1848.

CARTWRIGHT, N., Lombard Street, London.

65. Plain Vertical Movement, with curiously pierced silver pillars, enamel dial, gilt pierced hands, No. 2100.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

CARTWRIGHT, THOMAS, Horologs: Principi Londini.

Apprenticed to Christopher Gould, 4 December, 1693.

66. Vertical Movement, with crystal cock, curiously jewelled.

Purchased by the Company, for £1, at Windsor, 1848.

CLAY, WILLIAM, London.

Apprenticed to Jeremiah Gregory, 26 May, 1680; made Free of the Company, 5 December, 1687.

67. SMALL SILVER-GILT WATCH, brass engraved dial, hour hand only, made previous to the introduction of chains, box curiously chased with the old English rose, the outer case perfectly plain.

COGNIET, *A*Paris.

68. METAL GILT WATCH, winds up by cannon pinion square, hour hand only, the case embossed and gilt, the subject being Apollo with his lyre. *c 1700*

Purchased by the Company, 1821.

Digitized by Google

CORUN, à Montpellier.

69. An Ancient Vertical Movement, with enamel dial, and curiously pierced hands, with moveable slide for adjusting the escapement cock, jewelled with a ruby end piece.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1873.

COURT, HENLEY, No. 5.

70. A Box ALARUM patent repeater, made to receive any ordinary watch of the period, the fuzee square being inserted in a hollow receptacle attached to a pinion, which, being turned by the fuzee, acts upon a rack having divisions thereon, and by which it is set to the time the Alarum is required to be discharged.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

CREACK, WILLIAM, London.

71. Plain Vertical Movement, with enamel dial, in pair of cases, the outer case embossed and gilt, No. 18573.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

CRONIER, à Paris.

72. Gilt French Movement, double-pin escapement No. 692.

Presented by F. B. ADAMS, July, 1869.

DEBAUFRE, PETER, London.

Made Free of the Company, 1 July, 1689.

73. CURIOUS SILVER WATCH, with original lever escapement, small crystal at back to show the balance, beats half-seconds, has stop-work, silver dial (outer case wanting), the whole in good preservation.

Purchased by the Company at Alexander Cumming's sale, July, 1815.

DE CHARMES, SIMON, London.

Made Free of the Company, 6 April, 1691.

74. GOLD DOUBLE-CASE REPEATER, gold dial, No. 27. The case is a fine specimen of early engraving and

Digitized by Google

piercing. This watch was the property of the Duke of Bridgewater, the originator of the canal called after his name: it was probably made for one of his ancestors, whose coronet (a Baron's) and cypher reversed are engraved on the back.

Presented by B. L. VULLIAMY, 1849.

75. Vertical Movement, with enamel dial.

Presented by B. L VULLIAMY, 1849.

76. Vertical Movement, with pierced tulip pillars.

Presented by EDWARD STREETER, 1875.

DELANDER. admitted 1721.

Nathaniel Delander, chosen one of the Court of Assistants April 4, 1743; served the office of Warden in 1745-6, and that of Master in 1747. Daniel Delander and John Delander were also Members of the Company.

77. Gilt Movement, No. 488.

Presented by F. B. ADAMS, July, 1869.

DESBOIS & WHEELER, London.

78. A METAL WATCH, No. 760.

Late the property of Lady Frederick Campbell, who was burnt to death at Combe Bank, wife of Lord Frederick Campbell, youngest son of John, Duke of Argyle.

(The curious effects of the fire are shown upon the dial and other portions of the watch.)

DEXTER, M., London.

79. Vertical Movement, enamel dial.

Presented by B. L. VULLIAMY.

DUBOIS et FILS.

80. Centre Seconds' Movement, representing the vibration of the pendulum, silver dial.

Digitized by Google

DUCOMUN, C^LES. dit BOUDRILE.

81. Vertical Movement (without case), showing the rising and setting of the sun, the days of the month, and the months of the year.

Presented by B. L. VULLIAMY, 1848.

DUNLOP.

82. Small silver name-plate of dial of an Antique Watch.

Presented by JOHN GRANT, April, 1874.

DUPIN, PAUL, London.

83. GOLD-CHASED DOUBLE-CASE VERGE REPEATING WATCH, jewelled, the inner case engraved and pierced, the outer case richly and beautifully chased by Moser, the whole protected by a metal case covered with black skin, ornamented with gilt pins.

Purchased by the Company, 1818.

EAGLETON, CHRISTOPHER, London.

Apprenticed to Charles Halstead, 4 June, 1683. 1696 freq C.C.

84. SILVER WATCH, No. 375, silver dial, outer case tortoiseshell, pinned with silver. In good preservation.

Presented by B. L. VULLIAMY.

EAST, EDWARDUS, Londini.

An original Assistant at the incorporation of the Company, 1632; chosen Warden, 1638; Master, 29 September, 1645; and a second time, 4 October, 1652; chosen Treasurer, 11 October, 1687.

85. *SILVER OVAL HUNTING WATCH, with crystal centre, catgut.

---

* Mr. East resided in Pall Mall, near the Tennis Court which Charles II., when Prince of Wales, resorted to. He frequently played, the stakes being an "Edwardus East," as His Royal Highness called it; that is, a watch of East's making.

Digitized by Google

86. METAL WATCH, outer case covered with black skin.

87. A Movement, with catgut, hour hand only driven by lanthorn pinion on fuzee arbor. An antique specimen, in good preservation.

88. CLOCK and ALARM, given to the Company by Mr. Williams, of the House of Commons; movement only. A very large specimen, one hand making a revolution in twelve hours. The Alarm is discharged by moving the centre of the dial, which is of silver, and elaborately engraved. The construction of the Clock is with a locking-wheel. The Alarm was struck upon a bell.

ELLWOOD, MARTIN, London.

Made Free of the Company, January, 1687.

89. SILVER WATCH, curious tortoiseshell case, inlaid with silver, silver dial.

EMERY, JOSIAH.

90. A Repeating Movement, horizontal escapement, ruby cylinder, helical balance spring with compensation curb, No. 1123.

Presented by CHARLES FRODSHAM & Co., 1875.

FAGUILLON, à Hesdin. Pas de Calais near Montreuil Sur

91. A Vertical Movement, no case or dial, the cock curiously pierced and engraved.

Presented by Messrs. ADAMS, 1849.

FROMANTEEL.

Several of this name have been Members of the Company.

92. An Ancient Vertical Movement, with open scroll, engraved cock and slide, open pillars, no dial, hour hand only.

Presented by EDWARD STREETER, 1875.

Digitized by Google

GLEAVE, MATTHEW.

93. Movement only, no dial or hour-wheel.

GOUGH WILLIAM, London.

94. SILVER WATCH, silver dial (outer case wanting), No. 475.

There is a peculiarity about the pendant work of this Watch, which is supposed to be for a maintaining power while the watch is being wound up.

Presented by B. L. VULLIAMY, 1816.

GOULLONS, Paris.

95. A VERY CURIOUS SMALL GOLD WATCH, the case enamelled in various colours, the design being raised in the Arabesque style, [horsehair], prior to the introduction of chains, hour-hand only, ornamental enamelled dial. A very beautiful specimen of the art of enamelling.

Purchased by the Company, 1828.

GRAHAM, GEORGE, Fleet Street.

Apprenticed to Henry Aske, 2 July, 1688; chosen on the Court of Assistants, 2 April, 1716; served the office of Warden, 1719-21; and chosen Master, 29 September, 1722; died November, 1751, aged 75; and was buried in Westminster Abbey.

96. A very sound Jewelled Vertical Movement, enamelled dial. No. 5074.

Presented by Sir JOHN THOROLD, Bart.

GRANT, JOHN (the Elder), Fleet Street.

Apprenticed to Alexander Cumming, his uncle, whom he succeeded in business; elected on the Court of Assistants, Oct. 9, 1809; served the office of Warden, 1810; died May 4, 1810.

97. A GOLD LEVER WATCH, in double case, No. 1479. Weighs 2 oz. 11 dwt. 2 grs. old standard.

This watch has a double-roller escapement, a triangular ruby pin working in fork of lever, the small roller below being slit half way down to allow guard-pin to pass. The teeth of escape-wheel

Digitized by Google

are upright, and are shaped somewhat like Arnold's cycloidal tooth-wheel, the action of the pallets being on the inside edges of the teeth. The pallets are fixed into arms forming a sort of fork working inside the escape-wheel teeth. This is one of the early attempts at the *detached* Lever Escapement.

Presented by his Son, JOHN GRANT, 12th October, 1874.

98. GOLD LEVER WATCH, double bottom, No. 2802, weighs 3 oz. 6 dwt. 2 grains.

This Watch has a double roller escapement, the ruby pin being placed behind instead of in front, as in the ordinary lever escapement, and the fork of the lever carried round the balance staff, the ends being turned up, so that the ruby pin, which is perfectly square, acts between them. A small roller is placed below, partly filed away, to allow the guard pin to pass. The escape-wheel is placed vertically, being driven by a contrite wheel, the pallets placed one below the other, allowing each tooth to glide off one pallet on to the other, very similar to Vulliamy's clock-pin escapement; a delicate banking pin, adjustable, is secured to the top coil of pendulum spring, which acts when necessary on the spring stud.

Each of these specimens has a compensation balance and cylindrical spring, and they are altogether of the highest character as regards workmanship.

Presented by his Son, JOHN GRANT, 12th October, 1874.

G(RANT), J(OHN) (the Elder).

99. Curious Lever Movement, with two balances, connected by a tooth-wheel, with two pendulum springs acting in contrary directions, with initials, "J. G., May, 1800," figured in Cumming's Works.

Presented by his Son, JOHN GRANT, 1850.

G(RANT), J(OHN) (the Elder).

100. SILVER DOUBLE-CASE, OPEN-FACE WATCH, with enamel dial, vertical escapement.

This Watch has a very peculiar mode of recording the time as a repeater, by simply turning the pendant gently round from left to right, as far as it will go, counting the number of ticks it makes on its return, which corresponds with the hour indicated on the dial by the hands, the pendant returning of itself. It is believed to be unique, and is curious from the singular method adopted to cause it to repeat the hours.

Presented by his Son, JOHN GRANT, 1873.

Digitized by Google

GRAPE, JOHN, London.

101. Plain Vertical Movement, with square pillars. Marked CX.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

GRAY, BENJAMIN, London, Watchmaker to King George II.

102. Vertical Repeating Movement, enamel dial and silver rim. N. X. I.

103. Plain Vertical Movement, dial and hands, No. 457. Made in 1737.

Presented by B. L. VULLIAMY, 1849.

104. GOLD REPEATER, with Apollo's Head at the back. The running train between the plate and dial, marked r. s. c. Made originally for Sir Peter Somes, May 1st, 1732.

105. SILVER PEDOMETER, silver dial. Has the following inscription on the back :—

"Made by B. Gray, Clockmaker to George II. Given to the Company of Clockmakers by his Great-Grandson, B. L. Vulliamy, 1849."

Presented by B. L. VULLIAMY, 1849.

106. A piece of mechanism in form of a WATCH, engraved at back, "made by B. Gray, clockmaker to George II., given to Charles Frodsham by his great-grandson, B. L. Vulliamy, 1849," supposed to be an idea for a pedometer for riding purposes.

Presented by CHARLES FRODSHAM & Co., 1875.

GRAY, B., and VULLIAMY JUST, London.

107. GOLD WATCH, vertical, enamel dial on gold. N. N. S. Outer case of shagreen. Cost, in 1753, £13 15s. 7d.* to manufacture.

Presented by B. L. VULLIAMY, 1853.

* These prices are curious as contrasted with the cost of similar watches at the present day.

Digitized by Google

GRAY, JOSEPH (Shaston).

108. A very Ancient Vertical Movement, with curiously pierced pillars, an early attempt at regulation by means of a screw and Index.

Presented by C. R. HARLE, 1875.

GREBAUNALL, ROBERT, ÆRouen.

109. SILVER OCTAGON, engraved case, subject, Jacob's Dream. Gilt dial, coat of arms inside the bottom, date about the middle of the sixteenth century. A very good specimen.

Purchased by the Company, 1863.

GREGG, FRANCIS, London.

Apprenticed to John Clowes, 7 September, 1691.

110. A BELL REPEATER, with silver cap, No. 6226.

Presented by B. L. VULLIAMY, 1816.

111. A Repeating Movement, capped, enamel dial.

Presented by B. L. VULLIAMY, 1816.

GRETTON, CHARLES, London.

Apprenticed to Lionel Wythe, 30 June, 1662; made Free of the Company, June 3, 1672; chosen on the Court of Assistants, 1 July, 1689; served the office of Warden, 1697-9; chosen to the office of Master, 30 September, 1700; and was a Benefactor to the Company.

112. A GOLD DOUBLE-CASE WATCH, with coloured gold chased dial, jewelled, the outer case struck up in imitation of engine-turning.

113. A SILVER DOUBLE-CASE ALARM WATCH, with silver dial. The box curiously pierced and engraved; the outer case being of skin, inlaid with silver.

GRIGNION and SON, London.

114. An EIGHT DAYS REGULATOR, with 12 inch silvered dial plate, beating dead seconds. The escapement

Digitized by Google

is of a very peculiar and delicate construction, the pallet receiving impulse on one side only. There is also a very ingenious and simple mode of keeping the clock going during the time of winding. On inserting the key, a lever is raised which puts into gear a spring acting directly on the centre wheel, whereby the power is maintained during the process of winding. On withdrawing the key the spring becomes released, and returns to its former inert position.

Presented by JOHN GRANT, 1875.

HALEY, CHARLES.

115. Gilt Movement, Remontoir escapement, $\frac{P.}{D.\ N.}$, Inv^{t}. et fecit.

Presented by F. B. ADAMS, July, 1869.

116. Gilt Pocket Chronometer, with enamel dial, pivoted detent, and peculiarly constructed compensation balance, No. $\frac{C.A.}{1513}$ Inv^{t}. et fecit.

Presented by F. B. ADAMS, July, 1869.

HANDS, TIM., London.

117. Plain Vertical Movement, no dial, No. 885.

Presented by B. L. VULLIAMY, 1849.

HARPER, ——, London.

118. Plain Verge Movement, no dial, Tulip pillars.

Presented by Messrs. G. & S. E. ATKINS, 1850.

HARRISON, JOHN.

(*See* Portraits.)

119. Long Eight Days Clock in Wainscot Case, with transparent dial, the frames, wheels, and pinions being of solid oak, made by John Harrison, being his first production while following the trade of a carpenter at Foulby, near Pontefract, Yorkshire.

One very similar is preserved at the South Kensington Museum, date about 1715.

Presented by W. THOMS, 1875.

Digitized by Google

HERBERT, CORNELIUS, "London Bridge."

The Records of the Company show that there were two of this name, one apprenticed to the other, 19 January, 1690; made Free, 3 March, 1700; chosen one of the Court of Assistants, 14 January, 1722; served the office of Warden, 1725-6; and chosen Master, 29 Sept., 1727. The probability is that this was made by the elder Herbert, whose house stood on London Bridge.

120. A Plain Vertical Movement.

Presented by Messrs. G. & S. E. ATKINS.

HERON, ISAACK, New York.

121. Vertical Movement, No. 57, enamel dial, evidently English make.

Presented by B. L. VULLIAMY, 1816.

HIGGS and EVANS, London.

122. Vertical Movement, remarkable for the unique character of its pillars, No. 6314.

Presented by EDWARD STREETER, 1875.

HUBERT, ESTIENNE, à Rouen.

123. Old French Movement with catgut, pinion on fuzee arbor, no dial or motion.

124. A Small, Imperfect, Oval Movement, with catgut, hour wheel driven by lanthorn pinion (a fragment).

Presented by B. L. VULLIAMY, June, 1816.

HUBERT, JEAN, à Rouen.

125. METAL SINGLE-CASE WATCH, enamel dial, formerly part of a timepiece.

HUGGERFORD, IGNATIUS, Londini.

A Freeman of the Haberdashers' Company, admitted and sworn a Brother of this Company, July 3, 1671.

126. SILVER WATCH, with tortoiseshell outside case,

Digitized by Google

mounted and studded with silver, silver dial, with rotary day of the month circle.

This watch has a steel cock beautifully pierced; it is remarkable for having a jewel in the cock, and was produced before a Committee of the House of Commons, about 1704–5, to oppose the application for the grant of a Patent for jewelling watches and clocks. The opposition to the Patent was made at the expense of the Company, and was successful, as appears by a document in the handwriting of Edward Tutet, Master, dated 1785, and in possession of the Company.

Purchased by the Company of Henry Magson, for £2 10s., 15th January, 1894.

HUGHES, WILLIAM, London.

Apprenticed May 7, 1787.

127. Jewelled centre, seconds' movement, capped with enamel dial, square pillars, and beautifully engraved cock and name-piece, No. 4113.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

HUNTER, THOMAS, London.

128. Vertical Movement, enamel dial, in green skin case, gilt, No. 768.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

HUNTT, EDWARD. admitted to freedom 1684.

129. A fragment of an Ancient Movement, with tulip pillars.

Presented by GEORGE PHILCOX, 1875.

JACKMAN, JOSEPH, London Bridge.

130. A large Vertical Movement.

JULLIOTT, SOL., London.

131. Vertical Movement, No. 413. Date on main-spring, 1738.

Presented by Messrs. F. B. ADAMS & SONS.

KENDALL, LARKHAM, London.

132. SILVER WATCH in pair of cases, B. & V., very

Digitized by Google

curious and elaborate Remontoir escapement, coiled up compensation curb.

Purchased at the late Larkham Kendall's sale, by the late Benjamin Vulliamy, for £30, and presented by his son, B. L. Vulliamy, 1849.

KNIBB, JOHN, att., Oxon.

133. Vertical Movement, with curiously wrought pillars, no dial.

Presented by F. PUTLEY, 1816.

LAINY, DAVID.

134. Vertical Movement, of an early period, remarkable for its very peculiar cut pillars and its mode of fixing in case, hour hand only.

Presented by EDWARD STREETER, 1875.

LE COUNT, DANIEL, London.

Made Free of the Company, 29 September, 1676.

135. VerticalMovement, No. 197, with tulip pillars, no dial.

LE NOIR, à Rennes.

136. A METAL GILT WATCH, with enamel dial, with raised spaces for the hours, one hand only, winds up by cannon pinion; the outer case engraved and gilt.

Presented by C. H. IVERSON, 1875.

LEPINE, Horloger du Roy.

137. A SILVER WATCH, with enamel dial, central seconds, lever escapement.

138. A Plain Vertical Movement, with enamel dial, No. 1612.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

Digitized by Google

LE ROY, JULIEN, Paris.

139. Vertical Movement, No. 2721, no dial, curiously pierced gold hands.

Presented by B. L. VULLIAMY, 1849.

140. Plain Vertical Movement, with enamel dial and diamond hands, No. 13958.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

LEROUX, J., Charing Cross, London.

141. GOLD WATCH, in pair of cases. Very complicated and highly-finished escapement.

Presented by Admiral LORD LYONS, 1859.

LESTOURGEN, DAVID, London.

David Lestourgen, Watchmaker, admitted a Free Brother, 4 April, 1698.

142. Gilt Movement, No. 1386, enamel dial. A very good specimen.

Presented by F. B. ADAMS, July, 1869.

LINDESAY, G., "Servant to His Majesty," Watchmaker to King George II.

143. Vertical Movement, jewelled, enamel dial, No. 627.

MARGETTS, GEORGE.

Admitted a Free Clockmaker, 11 October, 1779; and to the Livery of the Company, October 7, 1799.

144. A very large WATCH, in metal gilt case, with enamelled back, showing mean time and sidereal difference in hours, minutes, and seconds by three revolving enamel discs, horizontal escapement, No. 1098.

Presented by CHARLES FRODSHAM & Co., 1875.

MARKHAM, MARKWICK, London.

145. Vertical Movement, has a rolling verge, the cut of the balance-wheel reversed, 6826, with enamel dial.

Presented by B. L. VULLIAMY, 1816.

Digitized by Google

146. Vertical Movement, No. 6723. Chiefly remarkable for its elaborate and highly-finished pillars.

Presented by Messrs. F. B. ADAMS & SONS, 1848.

MARTINOT, M., à Avignon.

147. THICK FRENCH METAL WATCH, very large balance, which, when in motion, has the appearance of a pendulum, curiously chased gilt and enamel dial, winds up through the centre, outer case black skin.

MASSEY, NICHOLAS, London.

Made Free of the Company, 1693.

148. Imperfect Vertical Movement, curious for having an index on the top of the cock.

MASTERSON, R^T., at the Exchange, fecit.

Made a Free Brother, 1683.

149. OVAL WATCH, in a silver hunting cockle-shell case, plain silver dial, hour hand only, catgut. A very curious specimen.

MISCELLANEOUS.

150. Photographs of CLOCK WATCH.

These three photographs represent three different views of a Chronometer Clock Watch, made for W. A. Tyssen Amhurst, Esq., by W. Payne & Co., 163, New Bond Street, London. It strikes the hours and quarters like a clock, when set, will strike the hours after each quarter, when the repeating piece is used, it will, in addition to the hours and quarters, repeat the minutes; it marks on the dial plate the days of the month and the days of the week, and also shows the age of the moon. The seconds' hand is a double one, and, in taking observations, by pressing a pin at the side of the case, one hand stops while the other moves on, indicating the number of seconds elapsing between the two events.

Presented by Wm. WING, Master of the Company in 1873.

151. EZEKIEL'S WHEEL.

Made by George Stockwell, of Sheerness, 1823.

"The appearance of the wheels and their work was like unto the colour of a beryl: and they four had one likeness: and their

Digitized by Google

appearance and their work was as it were a wheel in the middle of a wheel. When they went, they went upon their four sides: and they turned not when they went. As for their rings, they were so high that they were dreadful; and their rings were *full of eyes* round about them four."—EZEKIEL i. 16, 17, 18.

MOORE, PETER, London.

152. Plain Vertical Movement, with square pillars, No. 10459.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

MUDGE, THOMAS, London.

Apprenticed to George Graham May 4, 1730; admitted and sworn a Free Clockmaker, 15 January, 1738.

153. Very Curious and highly-finished Movement, with enamel dial, Remontoir escapement, having an early attempt at compensation applied to the curb. No. 260. Sold 22 August, 1755, and made for the King of Spain. It afterwards belonged to a Mr. Langdon.

Presented by J. Grant, 1850.

154. Full Plate, centre seconds (movement only), London, No. 260. Dial enamelled on gold.

This is a centre seconds Watch of a very complicated character, the seconds motion work being so arranged that it can be entirely detached from the escapement, which is a vertical one, with a solid verge. The balance is controlled by two flat spiral springs, one within the other, one only being acted upon by the index, the other being in connexion with a spiral compensation coil. There is in connexion with this movement a very elaborate amount of mechanism, the object of which is not immediately apparent, but is well worthy of the attention of the scientific enquirer.

Presented by J. GRANT, 1850.

155. A very elaborate piece of work as a bridge or balance cock, the hole for pivot being formed by four friction-rollers, with diamond end bearing. Regulator with micrometer screw, and other fine adjustments for curb-pins which apparently have acted upon a straight piece of the balance spring. Taken from a vertical remontoire time-piece by Thomas Mudge.

Presented by CHARLES FRODSHAM & Co., 1875.

Digitized by Google

MUDGE, THOMAS, AND DUTTON, WILLIAM.

156. GOLD DUPLEX REPEATER, with enamel dial, in a pair of cases, old standard, No. 1432. A fine specimen, in good preservation.

Presented by C. FRODSHAM, January 11, 1869.

M. Z.

157. SILVER-GILT OVAL WATCH, with silver band and dial, showing the moon's age, the days of the month, and the days of the week.

NELSON, JAMES, Londini.

Apprenticed to Oswald Durant, 9 April, 1638; made Free of the Company, 1645.

158. ASTRONOMICAL WATCH, in SILVER OVAL CASE, showing the hours, days, weeks, and months of the year, moon's age, sidereal time, equation, &c. Catgut, before the introduction of chains.

NERRY, JOHN, London.

159. Vertical Movement, with curiously chased pillars, no dial, No. 233.

Presented by EDWARD STREETER, 1875.

NORTHCOTE, SAMUEL, Plymouth.

160. Vertical Movement, jewelled, with enamel dial and square pillars, No. 599.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

ORDSON, WILLIAM, London.

161. A Vertical Movement, with square pillars and enamel dial, the hour circle represented by letters constituting the name "JAMES NEWMAN *," No. 8418.

Presented by EDWARD STREETER, 1875.

PATEY, WILLIAM.

162. Vertical Movement, with enamel dial, No. 204.

Presented by B. L. VULLIAMY.

Digitized by Google

PERIGAL, FRANCIS, Royal Exchange, London.

The son of Francis, of the Royal Exchange; apprenticed to his father July 6, 1778; admitted a Free Clockmaker January 9, 1786; made a Liveryman January 8, 1787; chosen on the Court of Assistants January, 1803; served the office of Warden 1813-5; Master 1816.

163. Plain Horizontal Movement, jewelled, capped, No. 17912.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

PINCHBECK, CHRISTOPHER, London.

(*See* Portraits.)

164. Small Repeating Movement, cap and bell, enamel dial, No. 56.

Presented by B. L. VULLIAMY, 1816.

PIKE, JOHN, London.

Served the office of Steward of the Company in 1838.

165. Vertical Movement only. No. 1998.

Presented by B. L. VULLIAMY.

QUARE AND HORSEMAN, London.

Daniel Quare, "a great clockmaker," admitted and sworn a Brother 3 April, 1671; chosen on the Court of Assistants, 1697; served the office of Warden, 1705–1707; chosen Master, 29 September, 1708. In 1676, he invented the repeating movement in watches, by which they were made to strike at pleasure.

166. Repeating Movement (Stockden motion), jewelled, no dial, No. 1117.

Presented by Messrs. F. B. ADAMS & SONS, 1850.

ROBINSON, FRANCIS, London.

Apprenticed to Thomas Williamson, 3 March, 1672; served the office of Warden in 1722-24; chosen Master in the room of Joseph Williamson, deceased, 7 June, 1725.

167. Repeating Movement, with enamel dial, No. 34, having a silver cap, upon which is engraved, "Servant to His Royal Highness."

Presented by B. L. VULLIAMY, 1849.

Digitized by Google

ROMILLY, à Paris.

168. Silver single case, No. 25382.

Presented by B. L. VULLIAMY, 1853.

REYNOLDS, T., St. Martin's-le-Grand.

169. A VERTICAL WATCH, in metal case, covered with tortoiseshell, No. 7081, a fine specimen of this description of work.

Presented by Messrs. F. B. ADAMS & SONS, 1849.

170. Plain Vertical Movement, square pillars, wanting dial, No. 859.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

SENIN, P., à Paris.

171. PORTABLE SILVER SUN-DIAL COMPASS, engraved.

Presented by J. GRANT, 1853.

SKINNER, MATHEW.

Served the office of Steward in 1735; elected on the Court of Assistants, April 4, 1743; chosen Warden, 1744-5, and Master, 29 Sept., 1746.

172. Vertical Movement, silver cock.

Presented by Deputy S. E. ATKINS, Clerk to the Company, 1873.

SMITH, JOHN, London.

173. Jewelled Repeating Movement, enamelled dial, No. 8499. (In a very good state of preservation.)

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

SMITH, JOSEPH, Bristol.

174. Vertical Movement, silver cap and cock. No. 300.

Presented by B. L. VULLIAMY.

Digitized by Google

SPENCER and PERKINS, London.

175. PEDOMETER, late the property of Her Majesty Queen Charlotte.

Presented by B. L. VULLIAMY, 1849.

SULLY, HENRICUS, invenit et fecit (1724), Horologer to the Duke of Orleans.

176. A SPRING CLOCK, of novel construction, showing seconds and days of the month; the action of the balance being combined with an adjustable lever acting vertically thereon.

Fully described in his work, entitled, 'Description Abrégée d'une Horloge d'une Nouvelle Invention pour la Juste Mesure du Temps sur Mer, avec le Jugement de l'Académie Royale des Sciences sur cette Invention.' Published 1726.

Presented by JOHN THWAITES, Master, 1821.

SWAAN, PIETER, Amsterdam.

177. A plain Vertical Movement, with elaborate chased and engraved pillars, enamel dial. A very ancient specimen, No. 620.

Presented by EDWARD STREETER, 1875.

TAYLOR, THOMAS, London.

Made Free of the Company, 10 August, 1646.

178. Plain Vertical Movement, catgut, with beautifully pierced steel studs and cock.

Presented by B. L. VULLIAMY, 1816.

THOMAS, JOHN, London.

179. Vertical Movement, with enamel dial, square pillars, in silver pair of cases, No. 6029.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1875.

TOMLINSON, WILLIAM, London.

Served the office of Warden in 1730; chosen Master of the Company, 29 September, 1733.

180. Vertical Movement, enamel dial, No. 1427.

Presented by Messrs. F. B. ADAMS & SONS, 1848.

Digitized by Google

TOMPION, THOMAS, London, a celebrated Watchmaker.

Made Free, 4 September, 1671; elected on the Court of the Company, 7 September, 1691; served the office of Warden, 1700-1703; chosen Master, 29 September, 1704; died, 13 November, 1713, age 75; buried in Westminster Abbey. Tompion made a watch with a spiral balance, or pendulum spring, for King Charles II. One end of the spring was made fast to the arbor of the balance wheel, whilst the other was secured to the plate, and the oscillations were rendered equal and regular by its elastic force. He also invented the cylinder escapement, with horizontal wheel, in 1695. 20.

181. Thick Verge Movement, with enamel dial, No. 2920.

182. Plain Verge Movement, no dial, No. 0598.

Presented by B. L. VULLIAMY, 1849.

183. Plain Vertical Movement, no dial, No. 2268.

Presented by EDWARD STREETER, 1875.

TOMPION, T., and BANGER, E., London.

Apprenticed to Charles Kempe, 2 April, 1694; made Free of the Company, 7 December, 1702. Banger Apprenticed to Joseph Ashby for Thomas Tompion, 27 September, 1687; made Free of the Company, 1694.

184. Repeating Clock Movement, with bell, No. 191. A curious specimen.

TORADO, FRANCIS, Gray's Inn.

Made Free of the Company, 1 April, 1633. His widow became a Pensioner in 1690.

185. SILVER OVAL HUNTING WATCH, silver dial, hour hand only, catgut, no pendant, with raised pins at each hour for feeling the time at night. Called a "Touch Watch."

Presented by WM. PLUMLEY, Jun., 1817.

TOULMIN, SAMUEL, Strand, London.

186. Centre Seconds, Horizontal Movement, jewelled, No. 3361, enamel dial. There is a wheel on the

Digitized by Google

cylinder which communicates with a pinion, fixed on the balance, which is under the dial, the escape wheel and cylinder being under the cock, beats full seconds. A very curious specimen.

Presented by B. L. VULLIAMY, 1830.

WATTS, BROUNKER, London.

Apprenticed to Joseph Knibb, 19 January, 1684; made Free of the Company, 5 February, 1693.

187. AN OLD BELL REPEATING WATCH, with a highly-finished coloured gold dial; has a peculiar engraved and gilt cap. The case pierced and beautifully engraved, and in good preservation (outer case wanting).

Presented by B. L. VULLIAMY, 1816.

WEBSTER, ROBERT, London.

188. SILVER BELL REPEATER, with silver dial, open engraved case, with crest a lion rampant crowned.

Purchased by the Company, 1852.

WINDMILLS, THOMAS, London.

Apprenticed to Joseph Windmills, 17 January, 1686; made Free of the Company, 20 January, 1695; chosen on the Court of Assistants, 6 July, 1713; served the office of Warden, 1717; chosen Master, 1718. 1716x

189. Repeating Movement; has an engraved and gilt rim.

Presented by Messrs. F. B. ADAMS & SONS, 1848.

190. Vertical Movement, enamel dial, No. 8736.

Presented by F. PUTLEY, 1817.

WOLVERSTONE, BENJAMIN, Londini.

Apprenticed to R. Richards, 26 May, 1649; made Free of the Company, 24 March, 1657.

191. CURIOUS ALARM WATCH, silver dial, hour-hand only, box curiously pierced and engraved, case handsomely studded.

Digitized by Google

Wrigg C.C. 1661

WRIGG, JOHANNES, in Covent Garden.

One of this name made Free of the Company, 4th Nov., 1661. ?

192. A Fragment.

YEATMAN, ANDREW.

193. SILVER VERGE WATCH.

Presented by JOSEPH FENN, 1862.

Digitized by Google

PAINTINGS, PORTRAITS, &c.

PAINTINGS.

GRAY, BENJAMIN.

VULLIAMY, BENJAMIN.

Admitted to the Honorary Freedom of the Clockmakers' Company 2 April, 1781.

VULLIAMY, FRANCIS JUSTIN.

A TABLE with ARTICLES of VERTU, BOOKS, MANUSCRIPTS, a WATCH, &c., upon it.

These were Bequeathed to the Company by BENJAMIN LEWIS VULLIAMY, Esq., in 1854.

MUDGE, THOMAS.

Original Portrait by Nathaniel Dance.

WAX PORTRAITS.

ATKINS, GEORGE.

The son of Francis Atkins. Born in Clement's Lane, Lombard Street, 1767; apprenticed to John Waldron, citizen and cordwainer; made Free of the Company September 1, 1788; admitted to the Livery October 13, 1788; chosen on the Court of Assistants

Digitized by Google

April 4, 1808; succeeded his father as Clerk of the Company December 22, 1809; resigned that office, after thirty-two years' service, upon being chosen on the Court of Assistants, October 11, 1841; the thanks of the Court presented to him for his long and faithful services January 10, 1842; chosen Warden 1844, and Master, upon the decease of Mr. R. P. Ganthony, January 24, 1845; again elected Master September 29, 1845; requested to sit for his portrait to Mr. Lucas January 12, 1852; died in 1855, aged 88, Father of the Company.

VULLIAMY, BENJAMIN LEWIS.

Made a Free Clockmaker by purchase December 4, 1809; admitted on the Livery January 8, 1810; chosen on the Court of Assistants 1810; served the office of Warden 1846-47; Master 1821, 1823, 1825, 1827, and 1848. A piece of plate presented to him, for the eminent services he had rendered to the Company during a long period of years, and on the occasion of his having served the office of Master for the fifth time, April 2, 1849; died 1853.

Presented to the Company by Mr. LUCAS, in July, 1851.

ENGRAVED PORTRAITS, &c.

ARNOLD, JOHN.

R. Davy, pinx. J. E. Reid, sculp.

An ingenious mechanician. Was born at Bodmin, Cornwall, in 1744; he carried on business in Cornhill, introduced several important improvements in the construction of Marine Chronometers, adopted the Cylindrical Balance-spring in 1776, was one of the competitors for the reward offered by the Board of Longitude under 12 Anne, c. 15, s. 2, 1713, which promised £10,000, upon certain conditions, to those who should submit the best instrument for determining the Longitude. Although he did not gain the prize, the Board awarded him £3,000 for the improvements he had made in Chronometers. He wrote several pamphlets upon his inventions; died 25 August, 1799, and was buried at Chiselhurst.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1874.

ATKINS, SAMUEL ELLIOTT.

A Photograph.

Son of George Atkins. Born in Clement's Lane, Lombard Street, April 13, 1807; apprenticed to his father May 7, 1821;

Digitized by Google

admitted to the Freedom by patrimony March 7, 1831, and to the Livery December 2, 1839; succeeded his father as Clerk to the Company January 10, 1842; upon the completion of the thirty-second year of his clerkship, he received the unanimous thanks of the Court of Assistants, which was inscribed on a presentation of plate, made to him in July, 1874; elected Member of the Court of Common Council for Cornhill, and appointed Deputy of the Ward, 1865.

BRÉGUET, ABRAHAM LOUIS.

A. Chazal, pinx. Langlume, lith.

Born at Neufchâtel January 10, 1747, his father being one of the French refugees; he was apprenticed in Paris, and subsequently became one of the greatest mechanical geniuses of his country. He was patronized by the Duke of Wellington, the Emperor of Russia, and the other Allies, in 1815. He made a chronometer for George IV. which had two pendulums; and for the blind he invented "*Une Montre de Touche*," on which the hours were indicated by projecting pins round the rim of the case, while the pendant marked twelve o'clock. Died 17 September, 1823.

Presented by C. FRODSHAM, 1861.

CUMMING, ALEXANDER, F.R.S., Edinburgh.

S. Drummond, A.R.A., pinx. Henry Meyer, sculp.

An ingenious Scotch mathematician, born at Edinburgh. He made a Clock for George III.; it registered the height of the barometer during every day throughout the year, and cost nearly £2,000: he was allowed £200 a year to attend to it. He wrote several essays on Clock and Watchwork, &c., in 1766. Made an honorary Freeman of the Company July 2, 1781.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1874.

EARNSHAW, THOMAS.

Sir Martin Archer Shee, R.A., pinx. Samuel Bellin, sculp.

There is a curious transit clock at the Greenwich Observatory made by Graham, but greatly improved and simplified by Earnshaw. He was the inventor of the Cylindrical Balance Spring; he succeeded in making Timekeepers so simple and cheap, that they were within the reach of private individuals; he was one of the unsuccessful competitors for the Longitude Reward, but the Commissioners granted him £3,000 for the improvements he had made in Chronometers.

Presented by CHARLES FRODSHAM & CO., 1874.

309509

Digitized by Google

ELLICOTT, JOHN, F.R.S. Ætat. 67, Clockmaker to His Majesty.

Nathaniel Dance, pinx. Robert Dunkarton, sculp.

Apprenticed to John Waters, September 5, 1687; made Free of the Company, July 6, 1696. Chosen on the Court of Assistants of the Company, 19 October, 1726; served the office of Warden from 1730-33. He was a mathematician of considerable ability, and read several papers before the Royal Society in 1752 upon the influence of heat and cold upon the rod of the pendulum. Died 1772.

Presented by his Son, EDWARD ELLICOTT, 1821.

FRODSHAM, WILLIAM JAMES, F.R.S.

Lithographed by Miss Ada Cole.

Admitted a Free Clockmaker, October 11, 1802; and to the Livery of the Company, 7th October, 1811; chosen on the Court of Assistants, January 12, 1824; served the office of Warden, 1833–35; and twice elected Master, 1836–1837. He published several works, among them the results of experiments on the vibration of pendulums in 1838. He was a liberal benefactor to the Company, a pension for decayed Clockmakers being called after his name.

Presented by CHARLES FRODSHAM, June 29, 1868.

GRAHAM, GEORGE, Clockmaker.

T. Hudson, pinx. J. Faber, sculp.

Born at Rigg, Cumberland, in 1673. Apprenticed to Henry Aske, 2 July, 1688; made Free of the Company, 2 July, 1715; elected on the Court of Assistants, 2 April, 1716; chosen Warden, 1719-21, and Master, 29 September, 1722; elected Fellow of the Royal Society, March 9, 1720. He was the greatest Horologist of his day. Invented the Horizontal Escapement in 1724. Died November, 1751, aged 75, and was buried in Westminster Abbey by the side of his friend Tompion. He left £20 for the poor of the Company.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1874.

HARRISON, JOHN.

T. King, pinx. P. L. Tassaert, sculp., 1768.

Born in 1693 at Foulby, near Pontefract, Yorkshire, his father being a carpenter, to which trade he brought up his son, who added to his income by occasionally assisting in surveying land and

Digitized by Google

repairing clocks and watches; in 1700 he removed with his parents to Barrow, in Lincolnshire, spending much of his time in improving the working parts of watches. In 1714, the Government having offered a reward for a method of determining the longitude at sea, he presented himself before the Board of Longitude with an instrument which, after it had been submitted to Halley and others, was tried with partial success; he was the inventor of the Compound Pendulum, and of several Timekeepers for ascertaining the Longitude at Sea, the last of which, on a voyage to and from Jamaica in 1761-2, ordered by the Commissioners of Longitude, was certified to have succeeded considerably within the limits prescribed by Act of Parliament of the 12th year of Queen Anne, and in 1765 he received the reward of £20,000. He published in 1775 a descriptive account of such mechanism as would afford a nice or true mensuration of time. He was also the inventor of the Gridiron Pendulum, and of the method of preventing the effect of heat and cold upon Timekeepers by two bars of different metals fixed together. He died at his house in Red Lion Square, Holborn, 24 March, 1776, and was buried in Hampstead Churchyard.

JANVIER, ANTIDE, Horloger ordinaire du Roi, dédié à son ami Wagner.

He was born at the little village of Jura in 1751; his father was a labouring mechanic. In 1769, at the age of eighteen, he had constructed several astronomical instruments; in 1784 Louis XVI. appointed him Royal Horologer; was the author of several astronomical works of great merit; died 23 September, 1835.

Presented by C. FRODSHAM & CO., 1874.

JEEJEEBHOY, Sir JAMSETJEE, Bart.

A Photograph.

Born in Bombay October 9, 1811, son of Sir Jamsetjee Jeejeebhoy, Bart., who was knighted by Her Majesty Victoria March 2, 1842; advanced to the dignity of a Baronet of the United Kingdom August 6, 1857; a great benefactor to his country; elected to the Honorary Freedom and Livery April 2, 1855; a liberal contributor to the Company's charities, a pension being called after his name. He died April 14, 1859, and was succeeded by his eldest son, the present Baronet.

KENNEDY, R. HARTLEY, M.D., F.R.A.S., Alderman.

Lithographed by Vinter.

Admitted to the Freedom and Livery of the Clockmakers' Company, April 26, 1851; chosen on the Court of Assistants, 1853;

Digitized by Google

elected Alderman of Cheap Ward, 1854; chosen Sheriff of London and Middlesex, June, 1855; resigned his aldermanic gown, March 30, 1858.

Presented by Mr. TEGG, 1858.

MUDGE, THOMAS.

Dance, pinx. Charles Townley, sculp., 1772.

Born at Exeter about 1710, his father being a schoolmaster at Bideford; he apprenticed his son to George Graham, the then most famous of Watchmakers, May 4, 1730. Whilst in his apprenticeship he became known as one of the best authorities upon Timekeepers. He succeeded to his master's business, carried on at the "Dial and One Crown," opposite the Bolt and Tun, Fleet Street. Admitted a Free Clockmaker January 15, 1738. He was employed by Ferdinand VI. of Spain to make several Timekeepers. In 1771 he retired from active business, and turned his attention to chronometers, and in 1789 he, with several others, competed for the reward offered by the Board of Longitude for the most accurate Timekeeper for determining the longitude, but was unsuccessful; however, in 1793 a Select Committee of the House of Commons, assisted by several men of science, reported that Mr. Mudge was one of the first Watchmakers this country had produced, and recommended the Parliament to give him a reward of £3,000 for his improvements in the construction of Chronometers. He died in 1794.

Presented by Deputy S. E. ATKINS, Clerk of the Company, January, 1874.

PINCHBECK [CHRISTOPHER].

Isaac Whood, pinx. J. Faber, sculp.

He lived at the sign of the "Astronomico-Musical Clock," Fleet Street, was the inventor of the metallic composition (imitation gold) bearing his name. He died November 18, 1732, and was buried in St. Dunstan's Church.

Presented by CHARLES FRODSHAM & CO., 1875.

REID, THOMAS.

Thomas Lawrence, pinx. Charles Thomson, sculp.

Of Edinburgh. Presented with the Honorary Freedom of the Company, October 10, 1825. He wrote a treatise on Clock and Watch Making in 1826.

Presented by CHARLES FRODSHAM & CO., 1874.

Digitized by Google

ROY, JULIEN LE, Horloger du Roi, ancien Directeur de la Société des Arta, né à Tours le 8 Août, 1686, mort à Paris le 20 Sep^bre 1759.

Perroneau, pinx. Moitte, sculp.

He showed at a very early age great mechanical genius, and in 1720 presented to the Academy of Sciences of Paris "une pendule d'équation," having a fixed dial which marked the correct time, and the rising and setting of the sun, upon which the highest encomiums were passed by the *savants* of both nations; and in 1739 Louis XV. appointed him Horloger du Roi. He made several improvements in Timekeepers for use on board ship; and in 1768 he went on a voyage to test his Timekeeper, and subsequently published several works upon the subject.

Presented by CHARLES FRODSHAM & CO., 1874.

TOMPION, THOMAS, Automatopæus.

G. Kneller, pinx. I. Smith, sculp.

He was made Free of the Clockmakers' Company, September 4, 1671; elected on the Court of Assistants September 7, 1691; served the office of Warden 1700-1703; chosen Master September 29, 1704. He was elected a Fellow of the Royal Society, resided at No. 67, Fleet Street, at the corner of Whitefriars Street, succeeded in his business by George Graham. Died 20 November, 1713, and was buried in Westminster Abbey.

Presented by Deputy S. E. ATKINS, Clerk of the Company, 1874.

WILLIS, FRANCIS, Gretford, Lincolnshire. Well known for his great range of knowledge in Mechanics.

Henry Sass, pinx. Wm. Ward, sculp., 1813.

Presented by CHARLES FRODSHAM & CO., 1874.

MISCELLANEOUS.

The original Grant of Arms, signed by Edward Walker, Garter King-at-Arms, January 30, 167½.

Three china bowls, having the arms of the Company and the donor upon the sides. (Lowestoft manufacture.)

A curious money-box (in iron).

Digitized by Google

LONDON: PRINTED BY E. J. FRANCIS & CO.
TOOK'S COURT AND WINE OFFICE COURT, E.C.

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

MAR 2 6 1935

Digitized by Google